

### **Effect of P-5-P and aspirin alone or in combination on mortality**

Model: rat model of coronary ligation

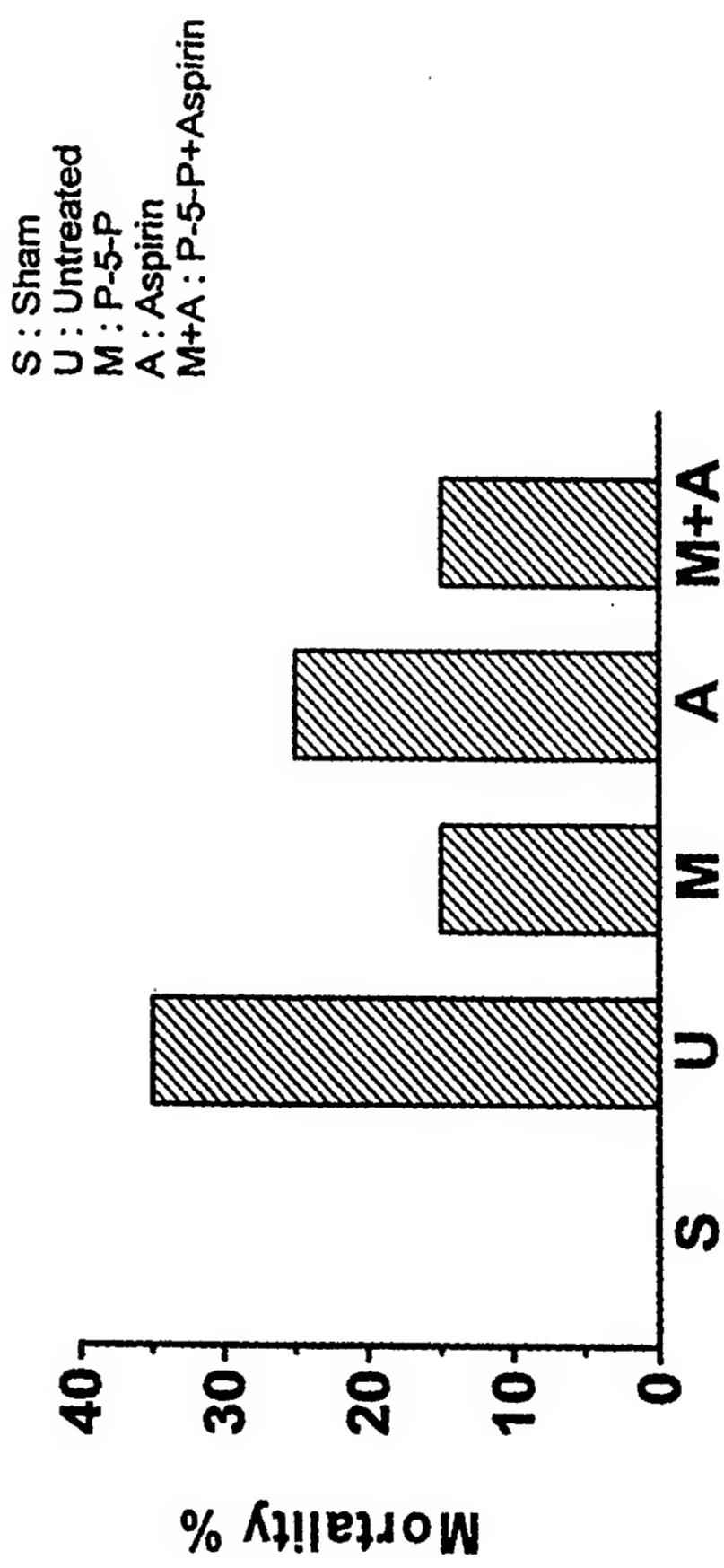
Species: Sprague Dawley rats

Dose of the drug: P-5-P (10 mg/kg), aspirin (100 mg/kg)

Route of administration: oral/once daily for 21 days

Treatment time: 1 hour after ligation

No. of animals in each group: 20



**Figure 1**

### Effect of P-5-P and captopril alone or in combination on mortality

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 mg/kg), captopril (100 mg/kg)  
Route of administration: oral/once daily for 21 days  
Treatment time: 1 hour after ligation  
No. of animals in each group: 20

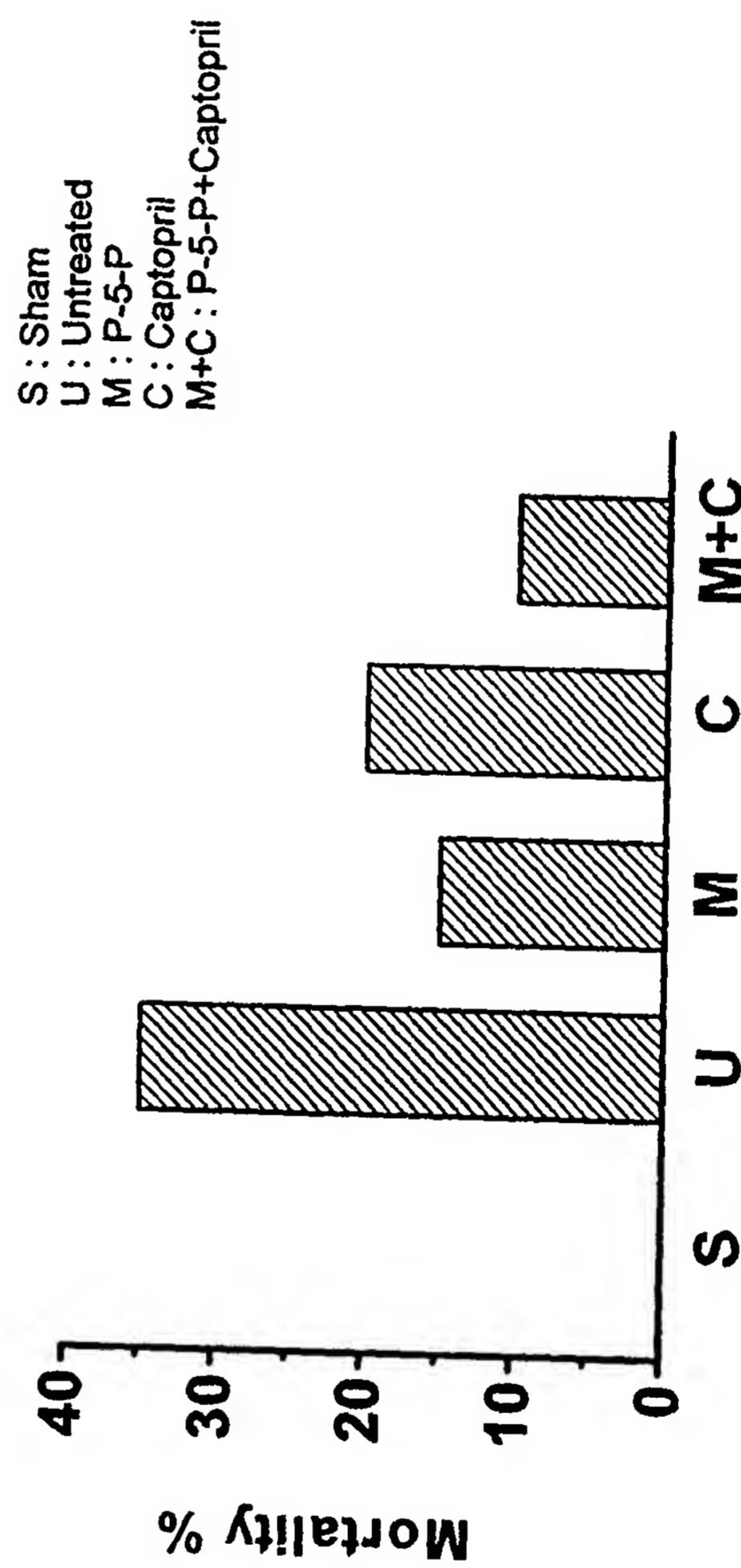


Figure 2

### Effect of P-5-P and propranolol alone or in combination on mortality

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 mg/kg), propranolol (50 mg/kg)  
Route of administration: oral/once daily for 21 days  
Treatment time: 1 hour after ligation  
No. of animals in each group: 20

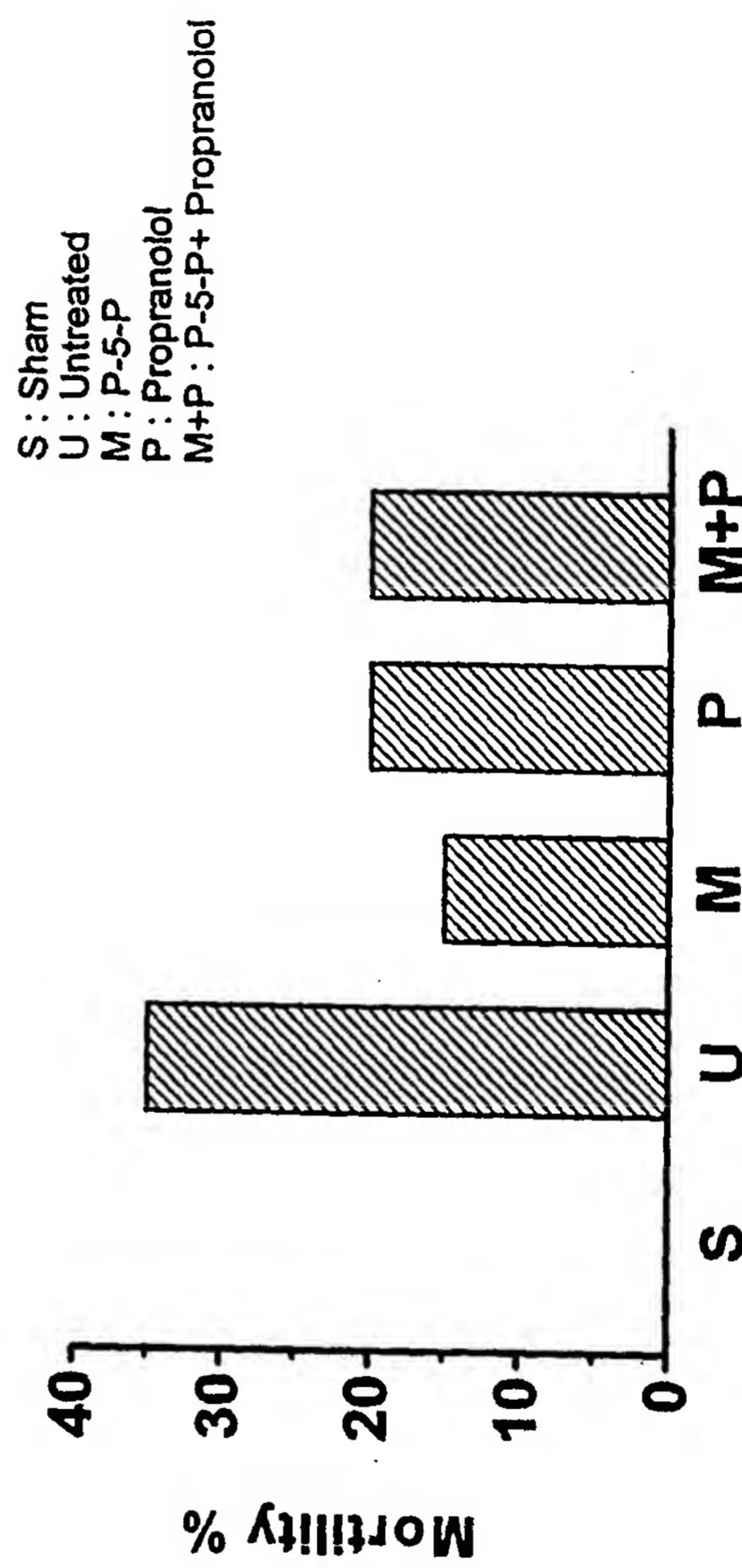
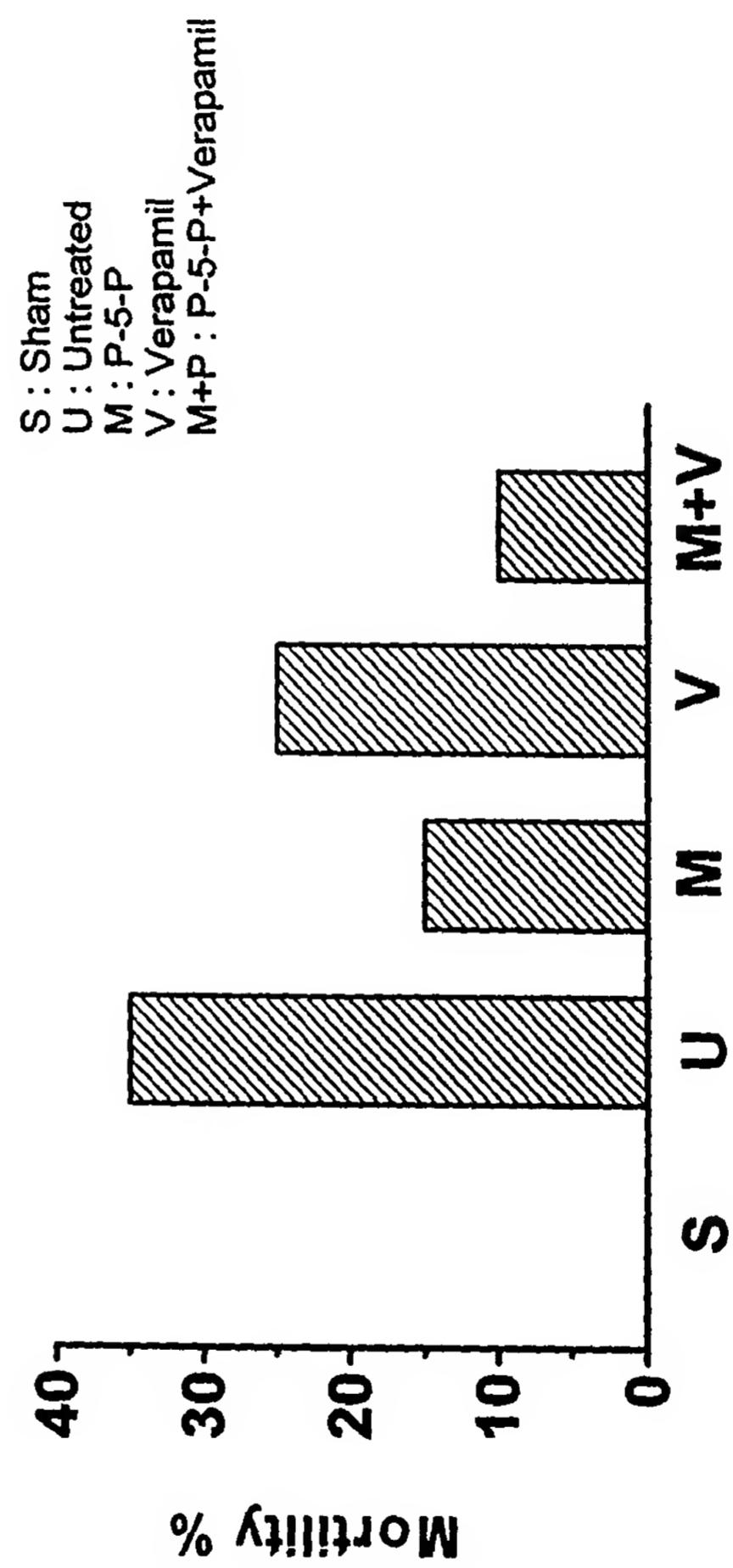


Figure 3

### Effect of P-5-P and verapamil alone or in combination on mortality

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 mg/kg), verapamil (25 mg/kg)  
Route of administration: oral/once daily for 21 days  
Treatment time: 1 hour after ligation  
No. of animals in each group: 20



**Figure 4**

### Effect of P-5-P and aspirin alone or in combination on scar weight

Model: rat model of coronary ligation

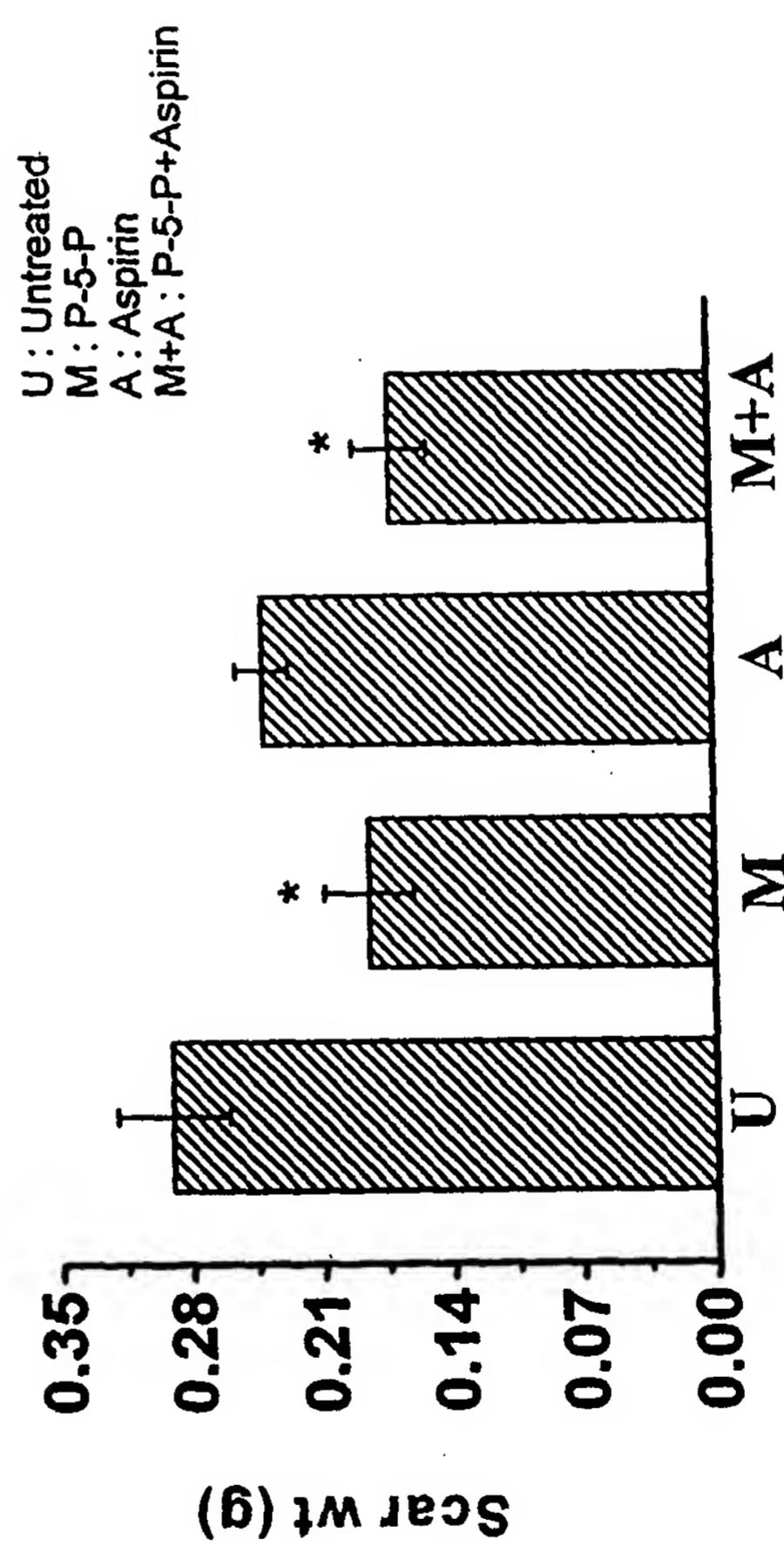
Species: Sprague Dawley rats

Dose of the drug: P-5-P (10 mg/kg), Aspirin (100 mg/kg)

Route of administration: oral/once daily for 21 days

Treatment time : 1 hour after ligation

No. of animals in each group: 5-6



\*P<0.05 significantly different from untreated and aspirin group

**Figure 5**

### Effect of P-5-P and captopril alone or in combination on scar weight

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 mg/kg), Captopril (100 mg/kg)  
Route of administration: oral/once daily for 21 days  
Treatment time: 1 hour after ligation  
No. of animals in each group: 5-6

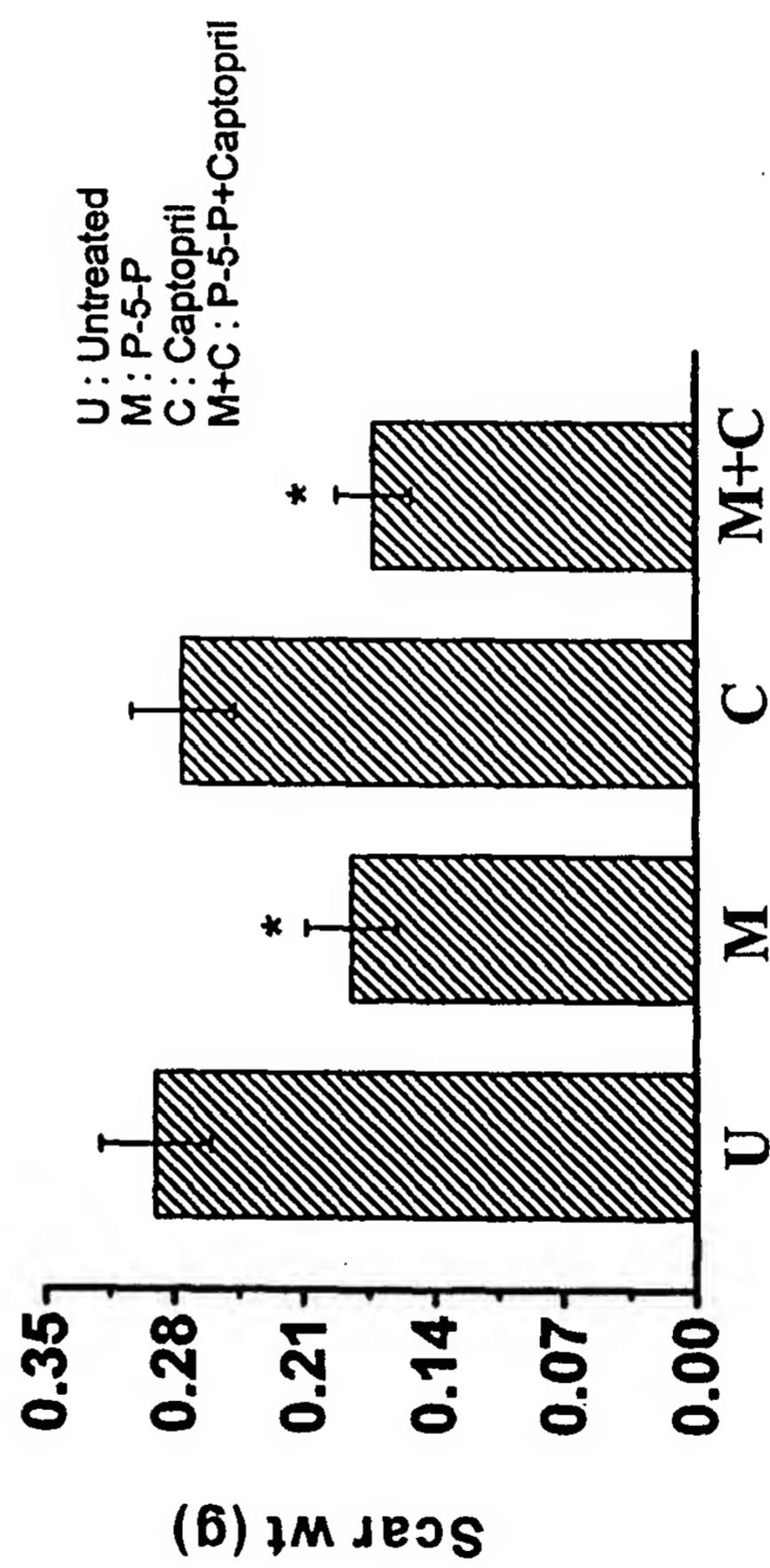


Figure 6

\* $P<0.05$  significantly different from untreated and captopril group.

### Effect of P-5-P and propranolol alone or in combination on scar weight

Model: rat model of coronary ligation

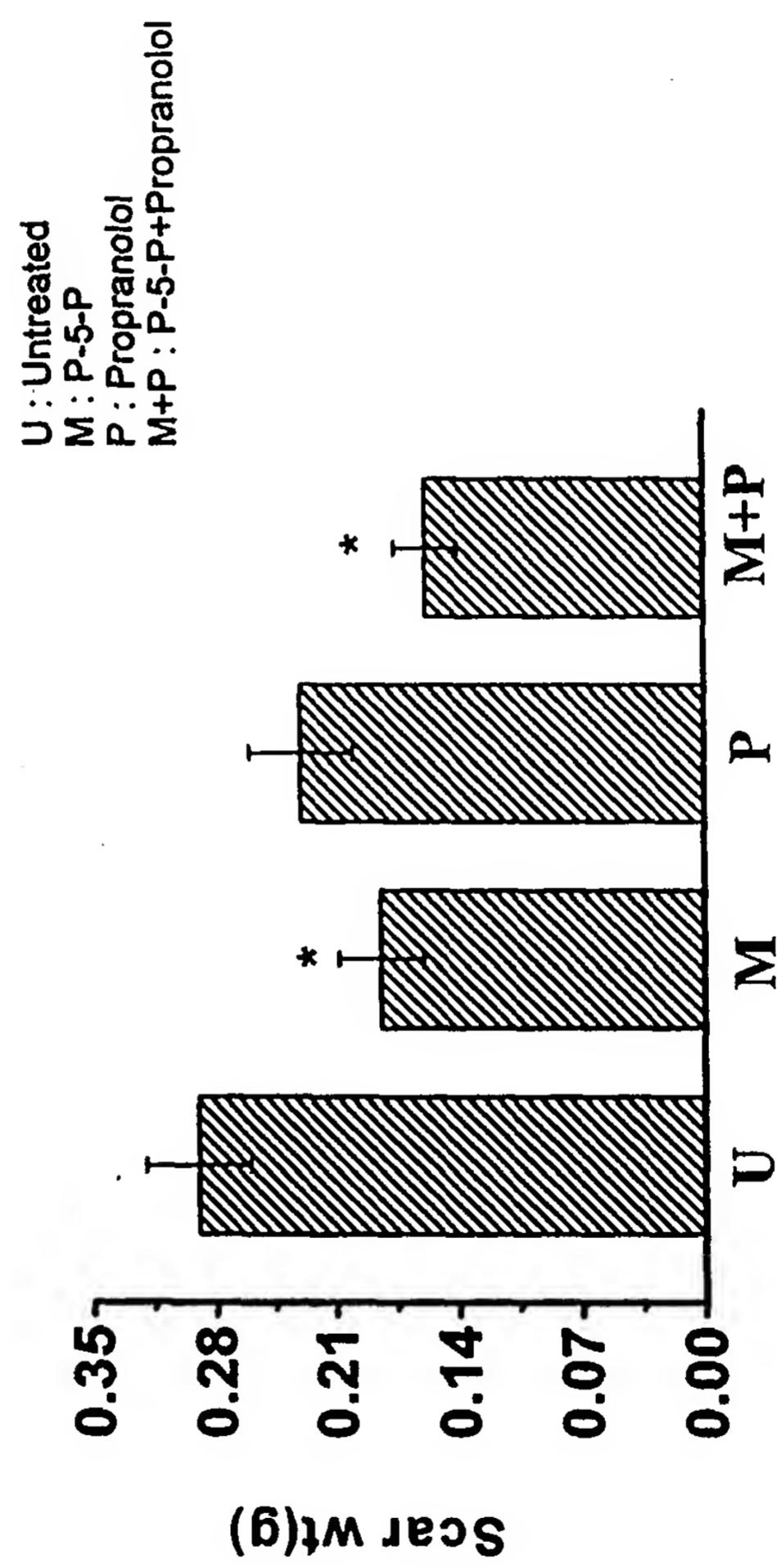
Species: Sprague Dawley rats

Dose of the drug: P-5-P (10 mg/kg), Propranolol (50 mg/kg)

Route of administration: oral/once daily for 21 days

Treatment time: 1 hour after ligation

No. of animals in each group: 5-6

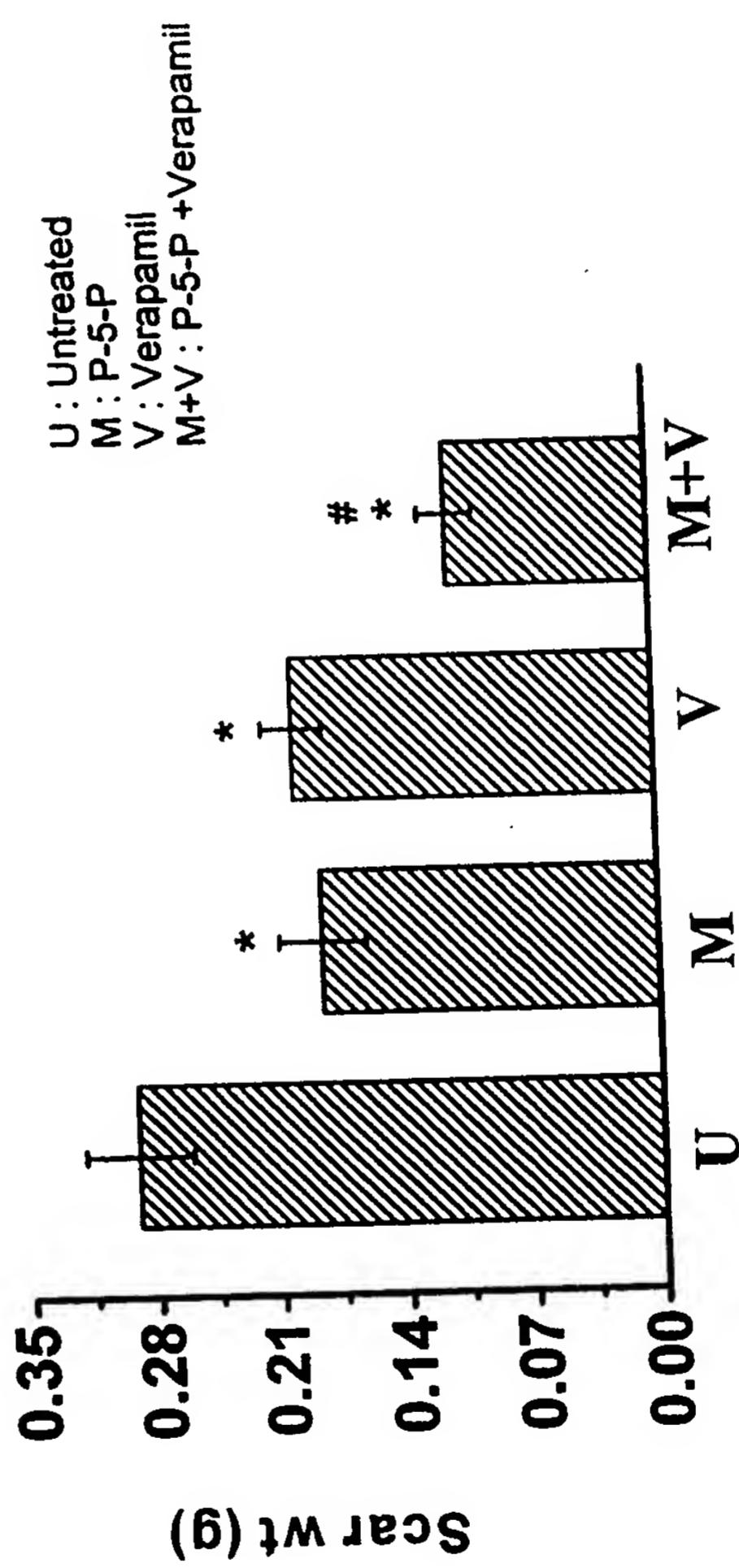


\*p<0.05 significantly different from untreated group

Figure 7

### Effect of P-5-P and verapamil alone or in combination on scar weight

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 mg/kg), Verapamil (25 mg/kg)  
Route of administration: oral/once daily for 21 days  
Treatment start time: 1 hour after ligation  
No. of animals in each group: 5-6

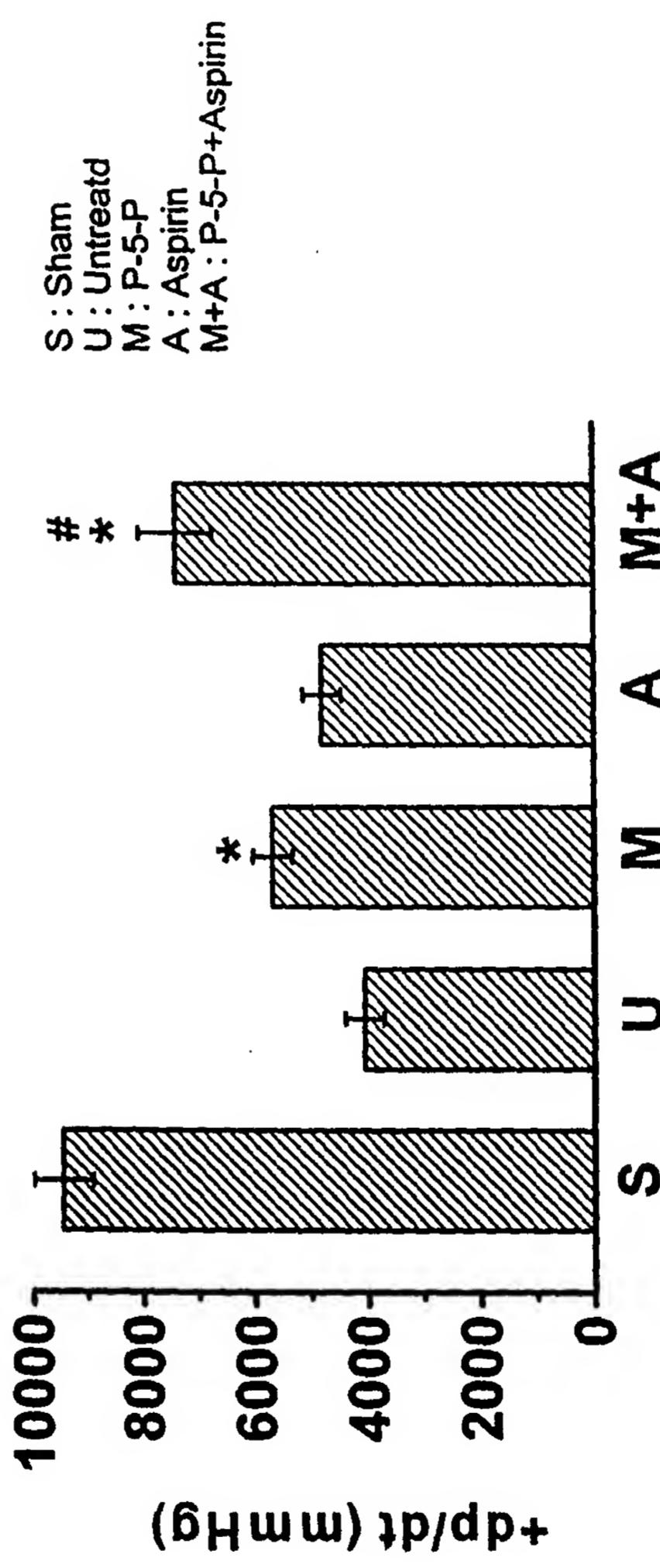


\*P<0.05 significantly different from untreated group.  
#P<0.05 significantly different from P-5-P and verapamil groups.

**Figure 8**

**Effect of P-5-P and aspirin alone or in combination on rate of force of contraction (+dp/dt)**

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 mg/kg), Aspirin (100 mg/kg)  
Route of administration: Oral/once daily for 21 days  
Treatment time: 1 hour after ligation  
No. of animals in each group: 5-6

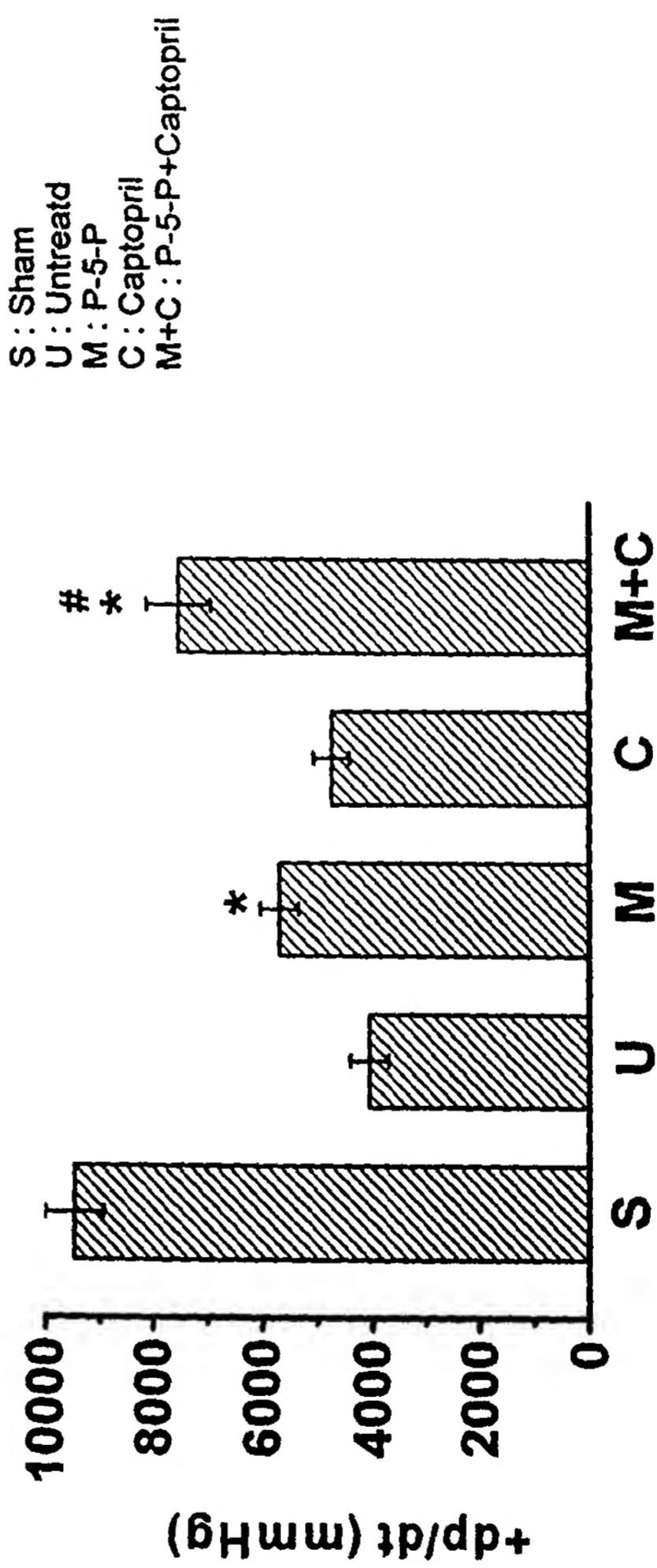


\*P<0.05 significantly different from untreated group  
#P<0.05 significantly different from M-1 group

**Figure 9**

**Effect of P-5-P and captopril alone or in combination on rate of force of contraction (+dp/dt)**

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 mg/kg), Captopril (100 mg/kg)  
Route of administration: oral/once daily for 21 days  
Treatment start time: 1 hour after ligation  
No. of animals in each group: 5-6

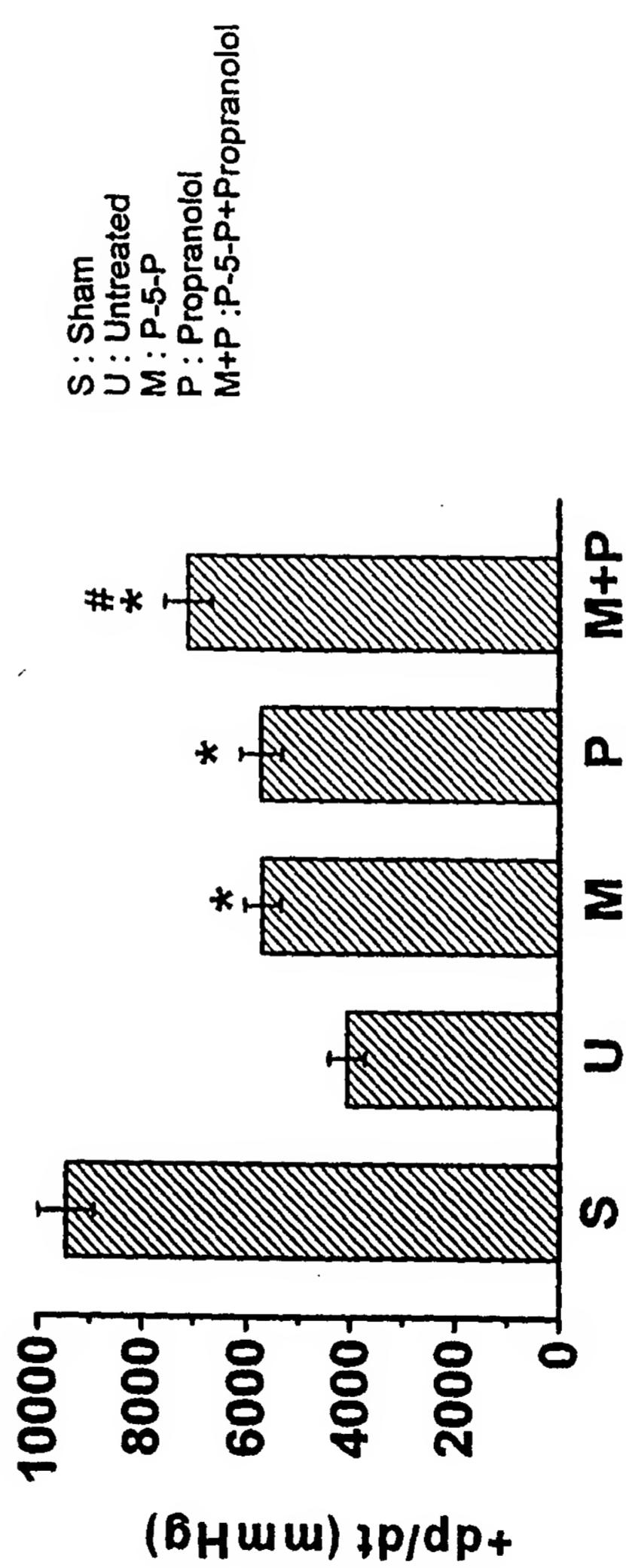


\*P<0.05 significantly different from untreated group  
#P<0.05 significantly different from MC-1 group

**Figure 10**

**Effect of P-5-P and propranolol alone or in combination on rate of force of contraction (-dp/dt)**

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 mg/kg), Propranolol (50 mg/kg)  
Route of administration: oral/once daily for 21 days  
Treatment time: 1 hour after ligation  
No. of animals in each group: 5-6

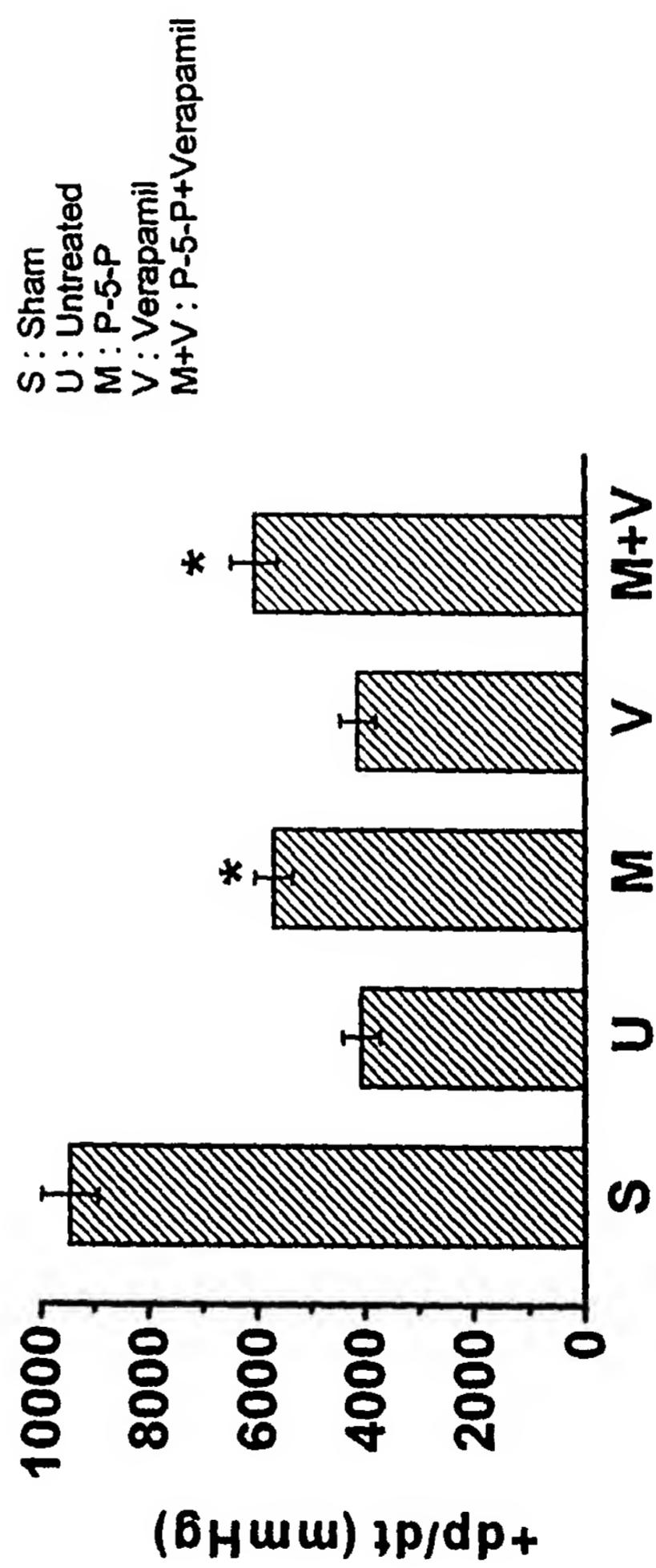


\*P<0.05 significantly different from untreated group  
#P<0.05 significantly different from P-5-P group

**Figure 11**

**Effect of P-5-P and verapamil alone or in combination on rate of force of contraction (-dp/dt)**

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 mg/kg), verapamil (25 mg/kg)  
Route of administration: oral/once daily for 21 days  
Treatment time: 1 hour after ligation  
No. of animals in each group: 5-6

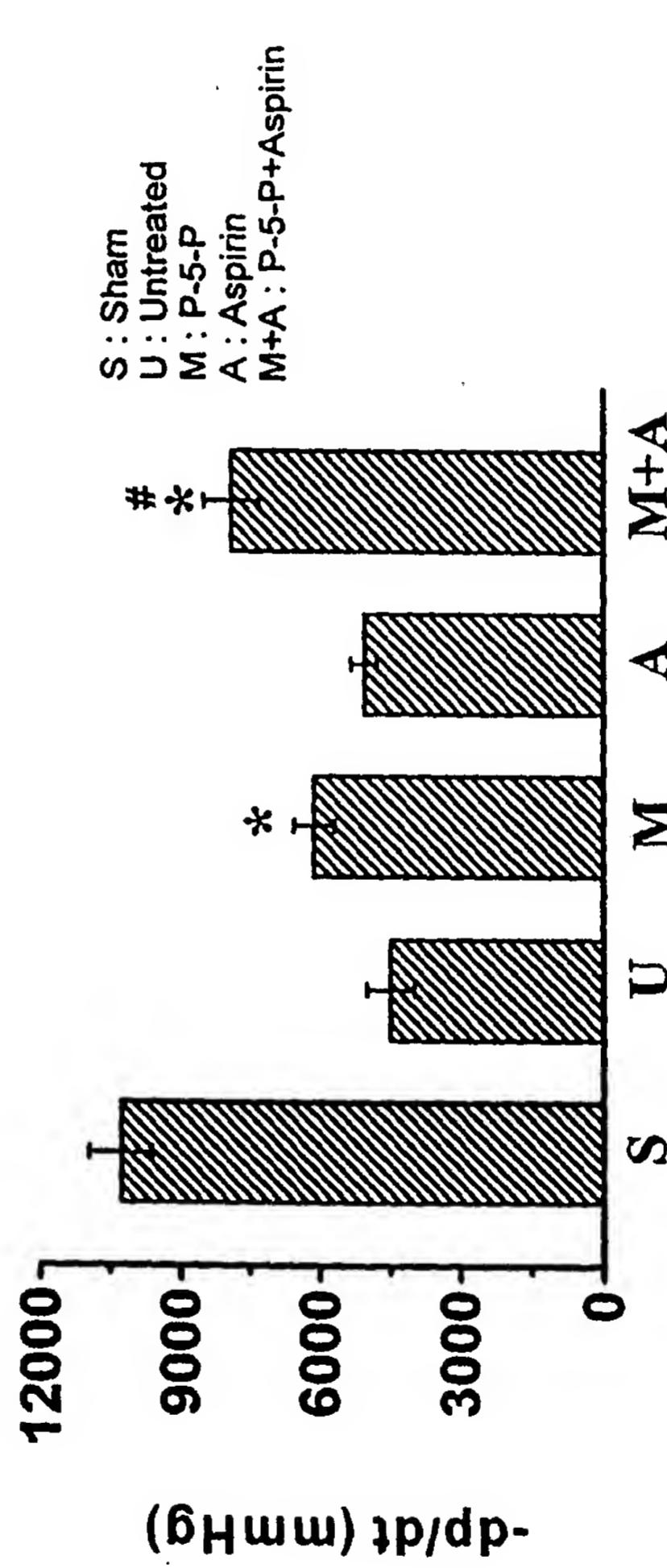


\*P<0.05 significantly different from untreated group  
#P<0.05 significantly different from P-5-P group

**Figure 12**

**Effect of P-5-P and aspirin alone or in combination on rate of force of relaxation (-dp/dt)**

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 ng/kg), Aspirin (100 mg/kg)  
Route of administration: oral/once daily for 21 days  
Treatment time: 1 hour after ligation  
No. of animals in each group: 5-6

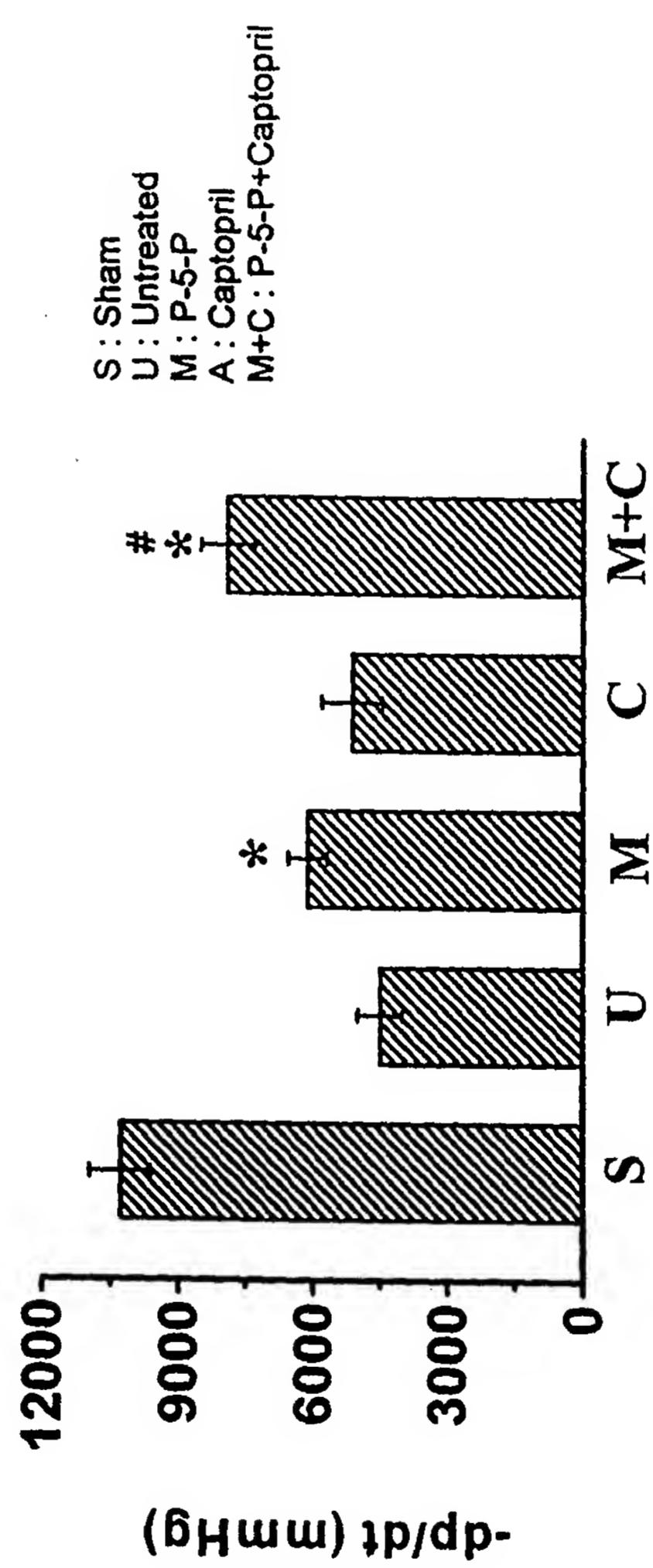


\*P<0.05 significantly different from untreated group  
#P<0.05 significantly different from P-5-P group

**Figure 13**

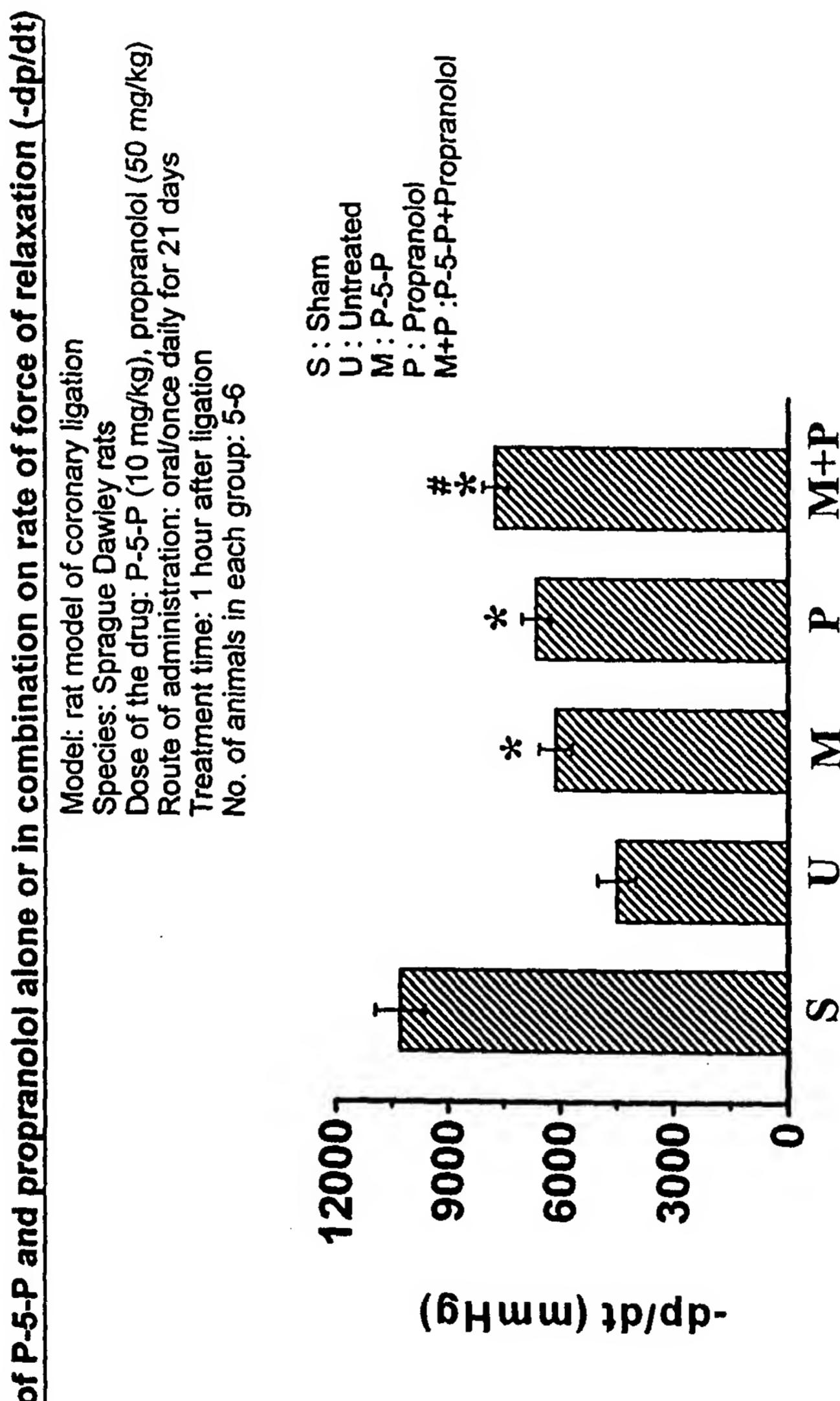
**Effect of P-5-P and captopril alone or in combination on rate of force of relaxation (-dp/dt)**

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 mg/kg), captopril (100 mg/kg)  
Route of administration: oral/once daily for 21 days  
Treatment time: 1 hour after ligation  
No. of animals in each group: 5-6



\*P<0.05 significantly different from untreated group  
#P<0.05 significantly different from P-5-P group

**Figure 14**



\*P<0.05 significantly different from untreated group  
#P<0.05 significantly different from P-5-P group

**Figure 15**

**Effect of P-5-P and verapamil alone or in combination on rate of relaxation (-dp/dt)**

Model: rat model of coronary ligation

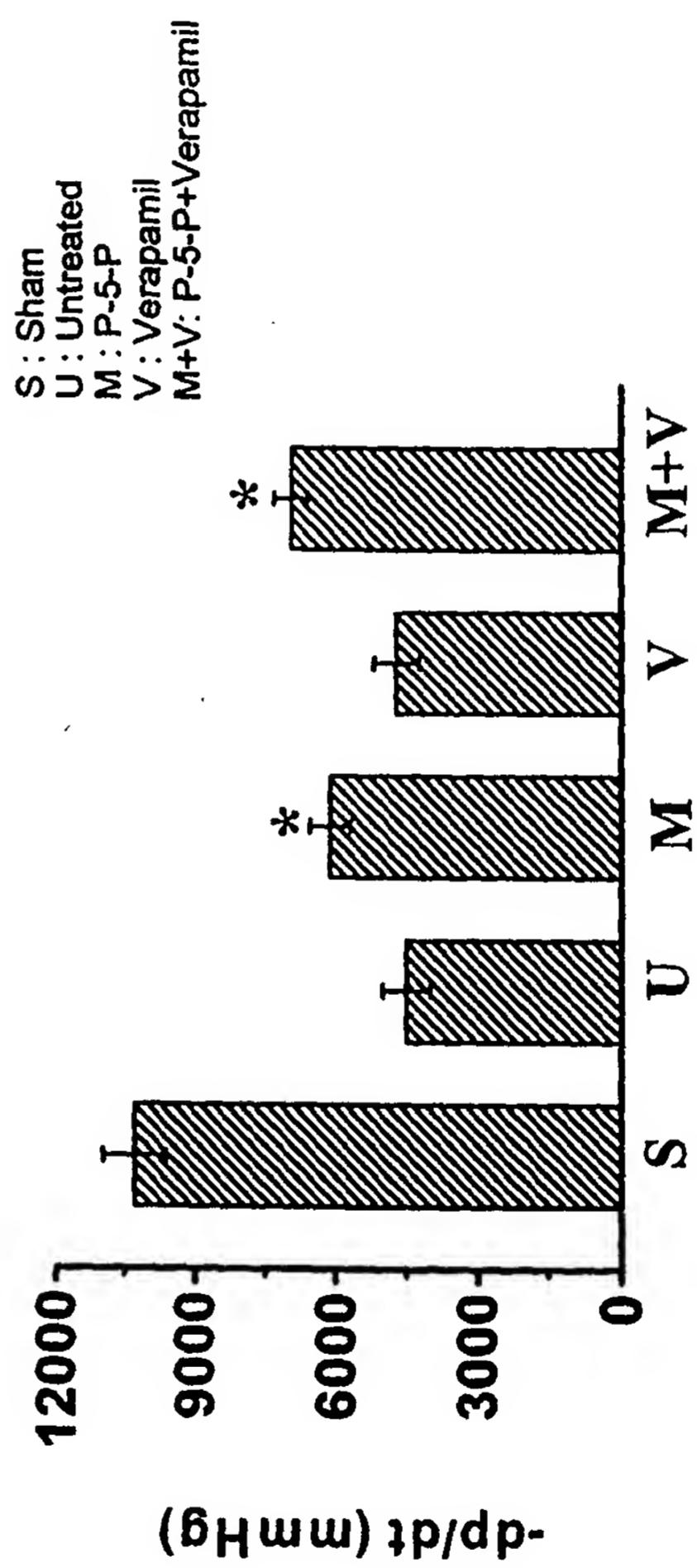
Species: Sprague Dawley rats

Dose of the drug: P-5-P (10 mg/kg), verapamil (25 mg/kg)

Route of administration: oral/once daily for 21 days

Treatment time: 1 hour after ligation

No. of animals in each group: 5-6

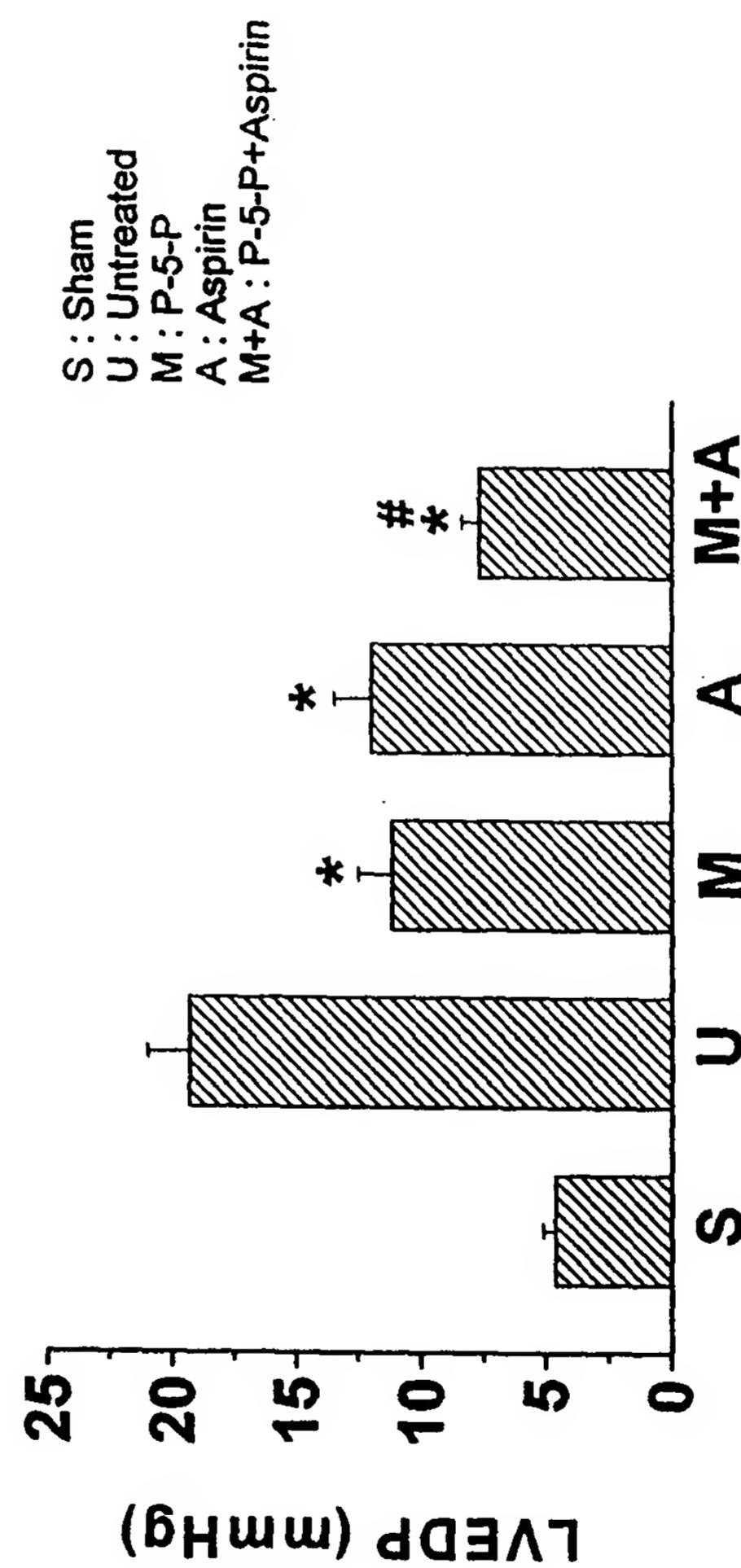


\*P<0.05 significantly different from untreated group  
#P<0.05 significantly different from P-5-P group

**Figure 16**

Effect of P-5-P and aspirin alone or in combination on left ventricular end diastolic pressure (LVEDP)

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 mg/kg), Aspirin (100 mg/kg)  
Route of administration: oral/once daily for 21 days  
Treatment time: 1 hour after ligation  
No. of animals in each group: 5-6



\*P<0.05 significantly different from untreated group  
#P<0.05 significantly different from MC-1 group

Figure 17

**Effect of P-5-P and captopril alone or in combination on left ventricular end diastolic pressure (LVEDP)**

Model: rat model of coronary ligation

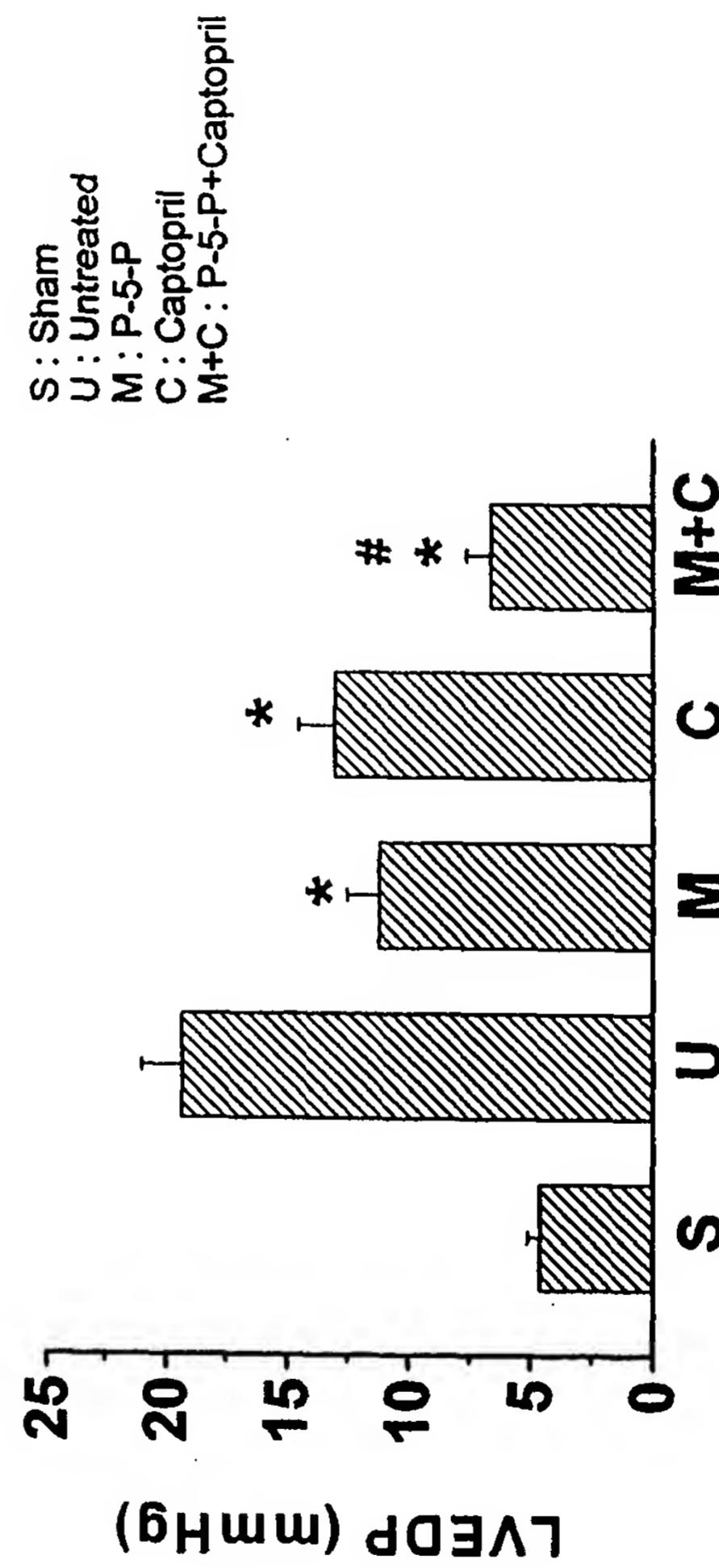
Species: Sprague Dawley rats

Dose of the drug: P-5-P (10 mg/kg), captopril (100 mg/kg)

Route of administration: oral/once daily for 21 days

Treatment time: 1 hour after ligation

No. of animals in each group: 5-6



\*P<0.05 significantly different from untreated group  
#P<0.05 significantly different from P-5-P group

**Figure 18**

**Effect of P-5-P and propranolol alone or in combination on left ventricular end diastolic pressure (LVEDP)**

Model: rat model of coronary ligation

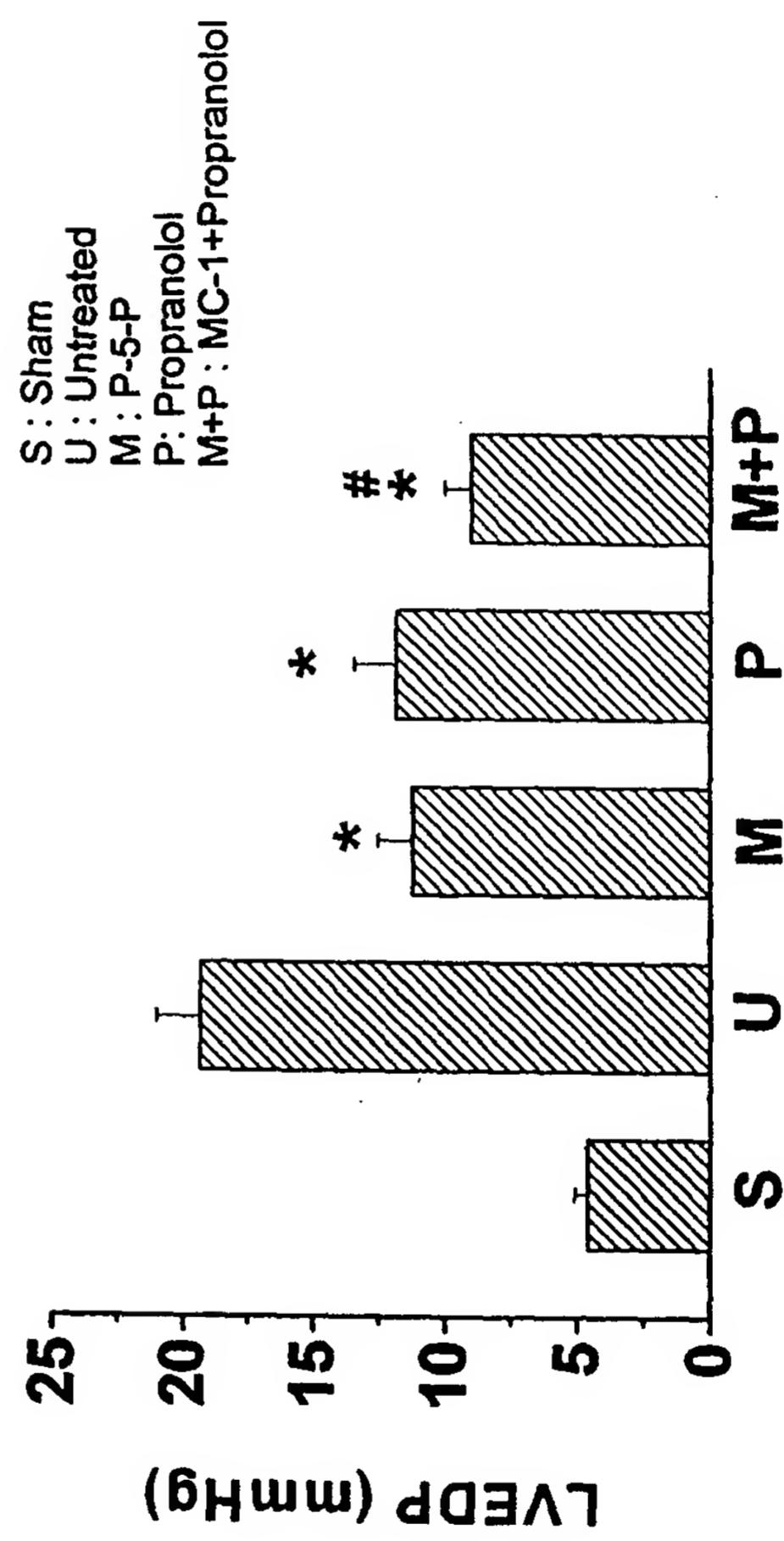
Species: Sprague Dawley rats

Dose of the drug: P-5-P (10 mg/kg), propranolol (50 mg/kg)

Route of administration: oral/once daily for 21 days

Treatment time: 1 hour after ligation

No. of animals in each group: 5-6



\*P<0.05 significantly different from untreated group  
#P<0.05 significantly different from P-5-P group

**Figure 19**

**Effect of P-5-P and verapamil alone or in combination on left ventricular end diastolic pressure (LVEDP)**

Model: rat model of coronary ligation

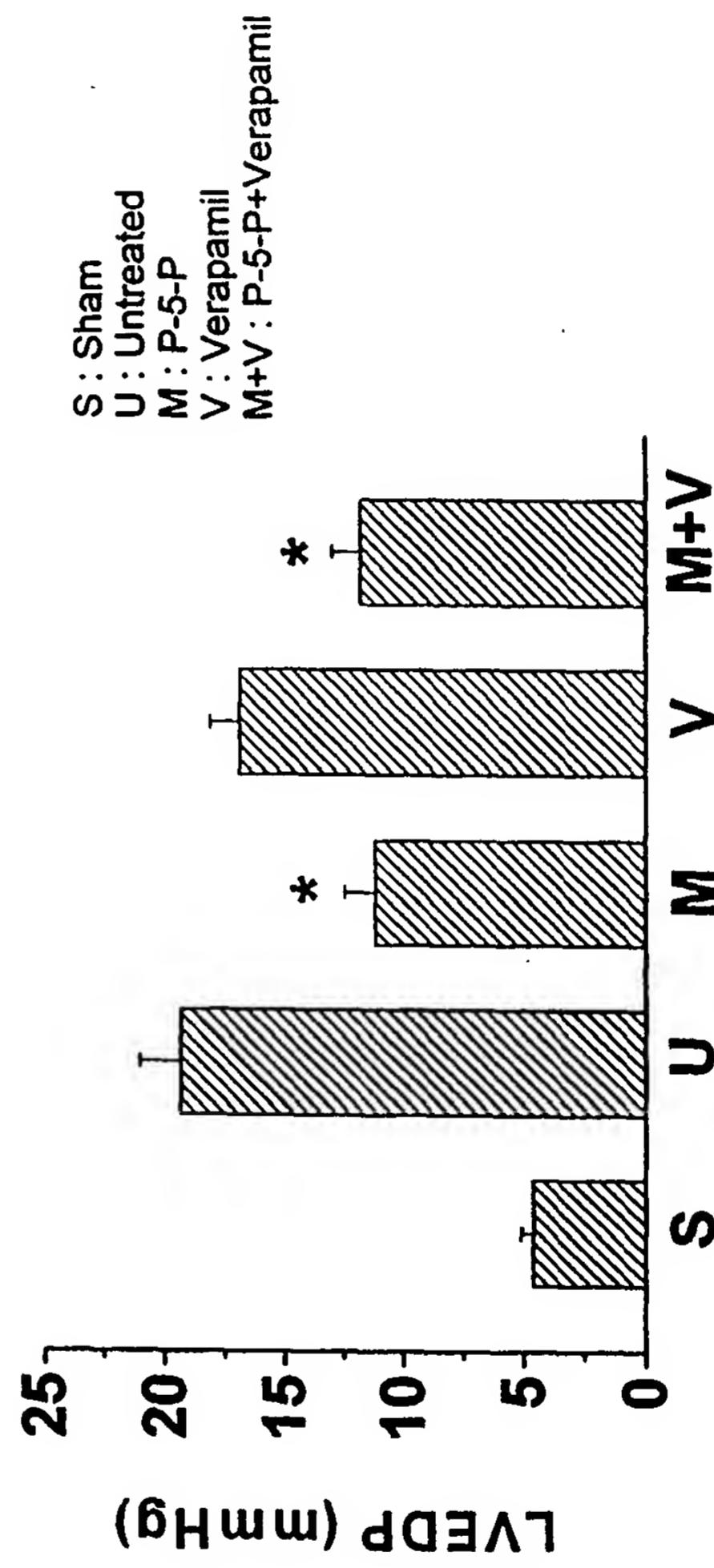
Species: Sprague Dawley rats

Dose of the drug: P-5-P (10 mg/kg), verapamil (25 mg/kg)

Route of administration: oral/once daily for 21 days

Treatment time: 1 hour after ligation

No. of animals in each group: 5-6

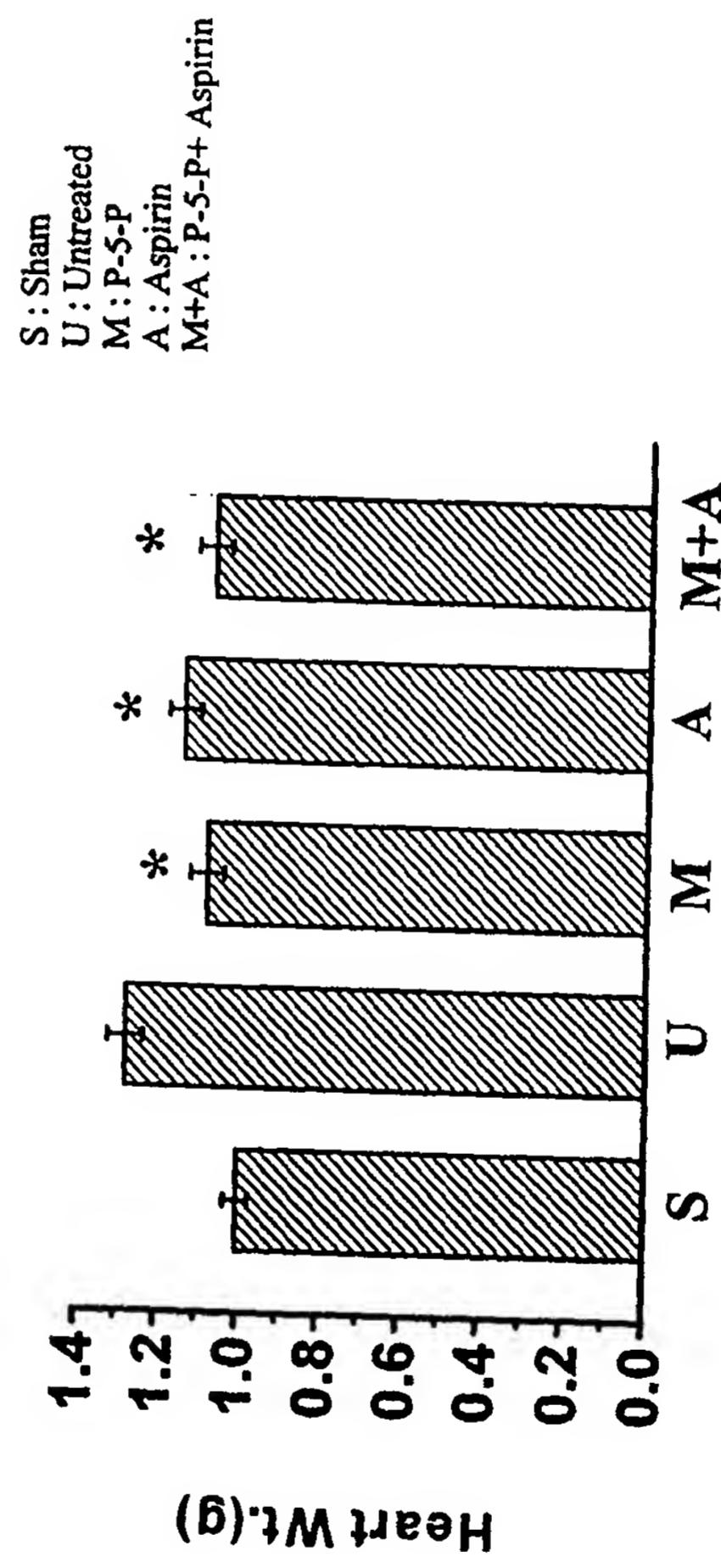


\*P<0.05 significantly different from untreated group

**Figure 20**

### Effect of P-5-P and aspirin alone or in combination on heart weight

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 mg/kg), aspirin (100 mg/kg)  
Route of administration: oral/once daily for 21 days  
Treatment time: 1 hour after ligation  
No. of animals in each group: 5-6

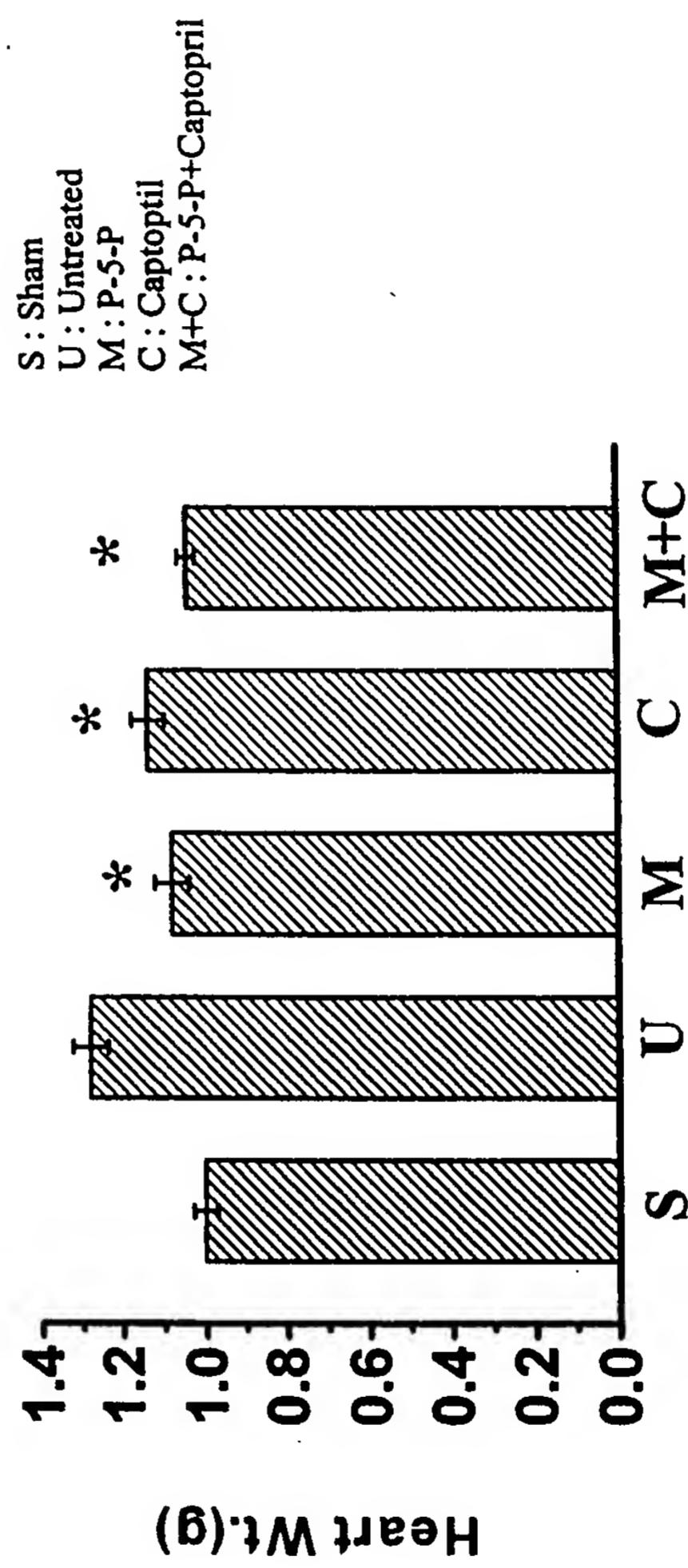


\*P<0.05 significantly different from untreated group

**Figure 21**

### Effect of P-5-P and captopril alone or in combination on heart weight

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 mg/kg), captopril (100 mg/kg)  
Route of administration: oral/once daily for 21 days  
Treatment time: 1 hour after ligation  
No. of animals in each group: 5-6

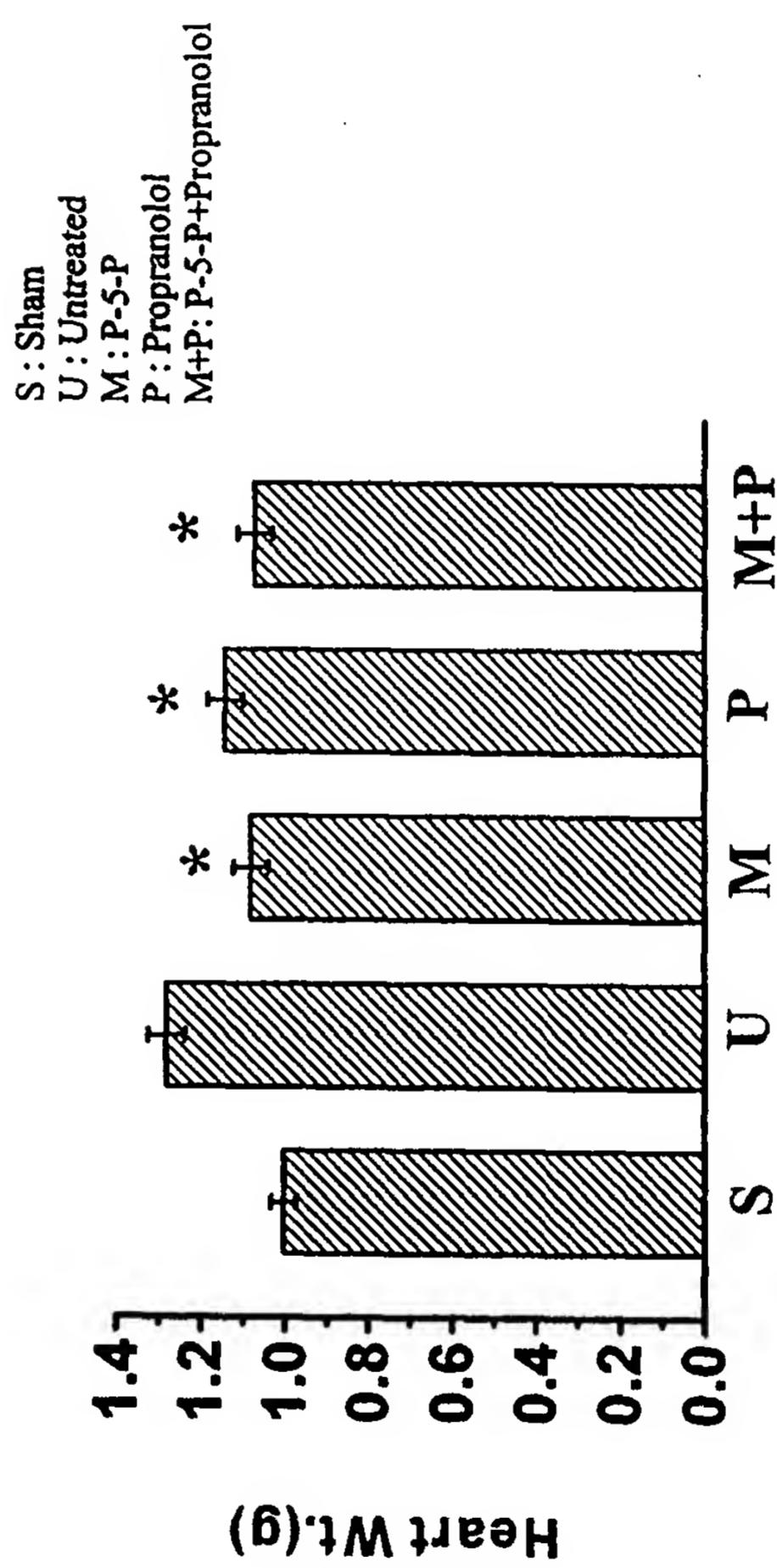


\*P<0.05 significantly different from untreated group

**Figure 22**

### Effect of P-5-P and propranolol alone or in combination on heart weight

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 mg/kg), propranolol (50 mg/kg)  
Route of administration: oral/once daily for 21 days  
Treatment time: 1 hour after ligation  
No. of animals in each group: 5-6

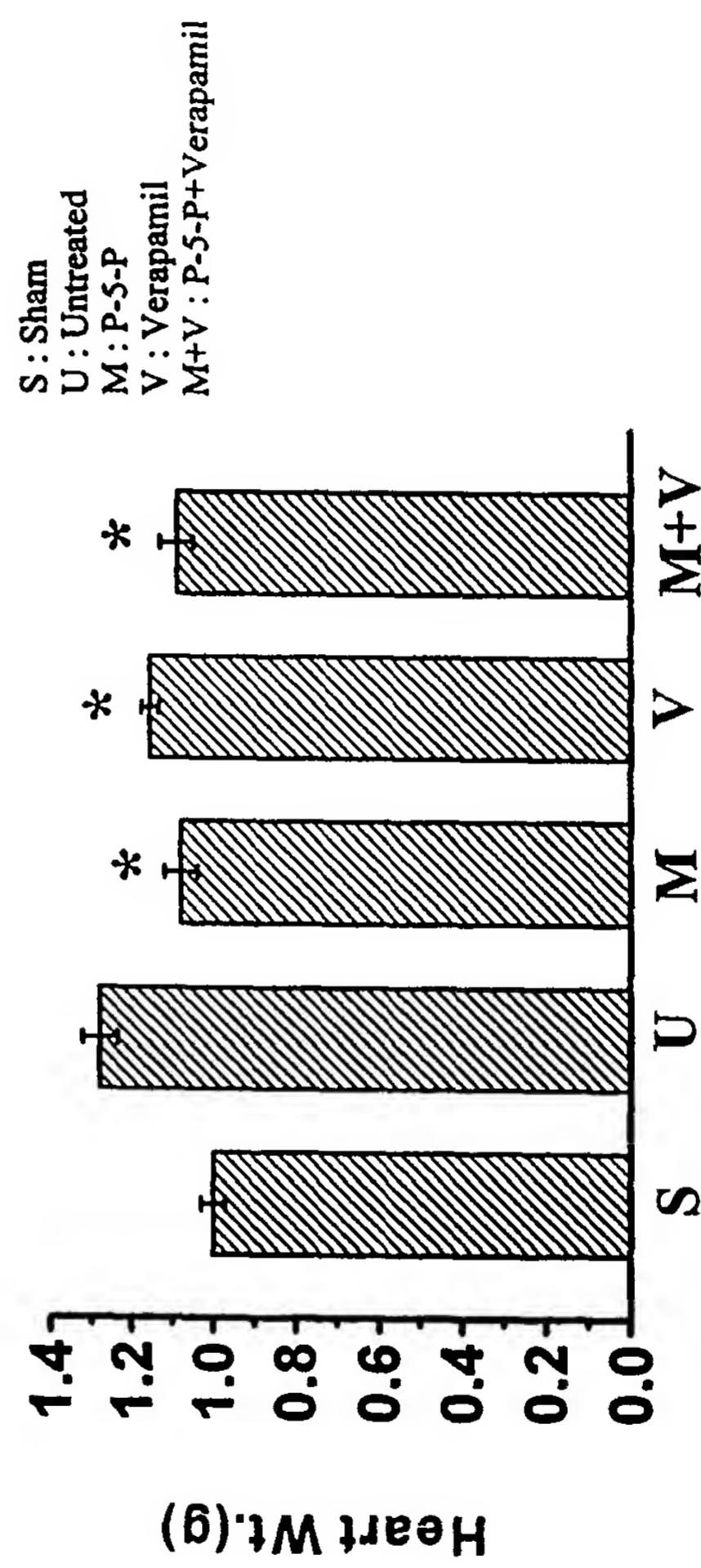


\*P<0.05 significantly different from untreated group

**Figure 23**

### **Effect of P-5-P and verapamil alone or in combination on heart weight**

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 mg/kg), verapamil (25 mg/kg)  
Route of administration: oral/once daily for 21 days  
Treatment time: 1 hour after ligation  
No. of animals in each group: 5-6



**Figure 24**

\*P<0.05 significantly different from untreated group

**Effect of P-5-P and aspirin alone or in combination on right ventricular weight**

Model: rat model of coronary ligation

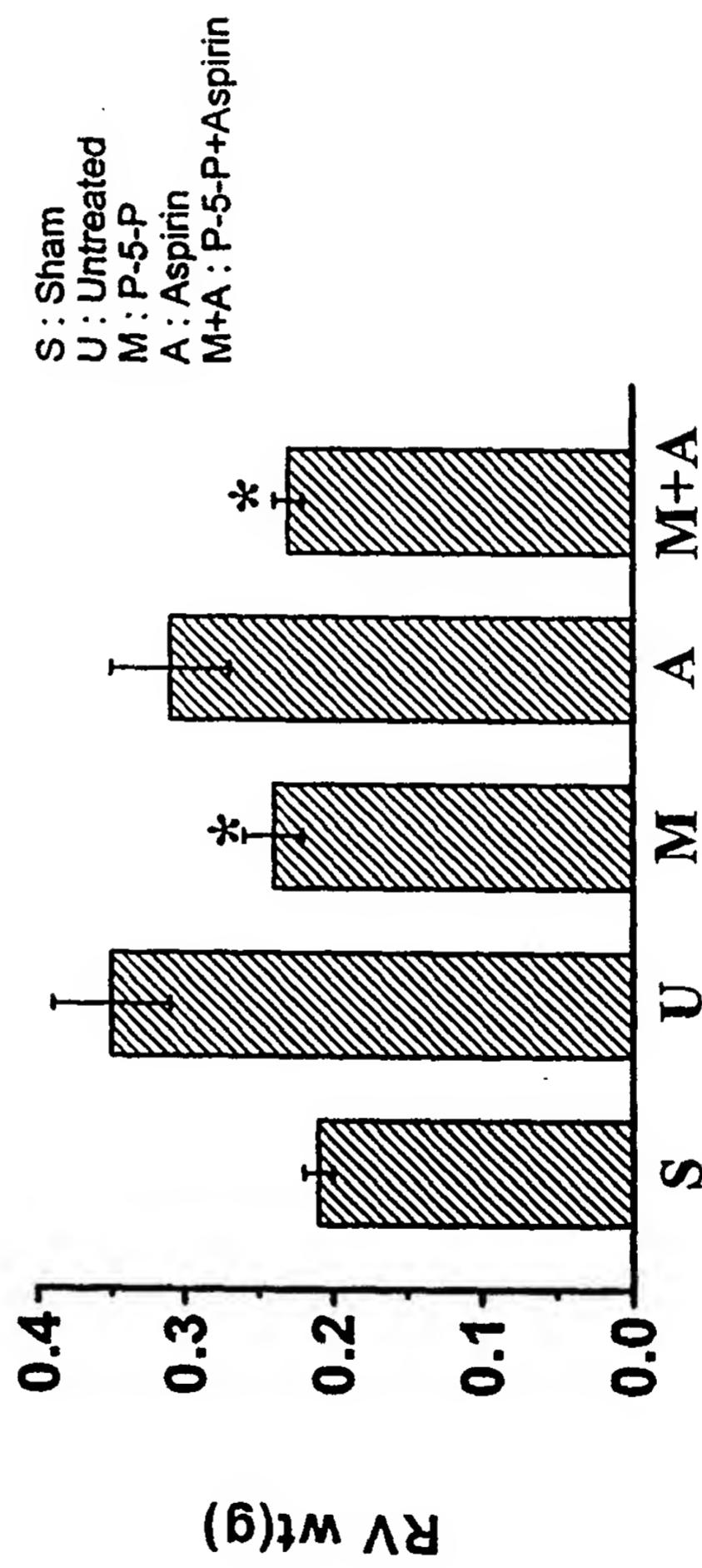
Species: Sprague Dawley rats

Dose of the drug: P-5-P (10 mg/kg), Aspirin (100 mg/kg)

Route of administration: oral/once daily for 21 days

Treatment time: 1 hour after ligation

No. of animals in each group: 5-6

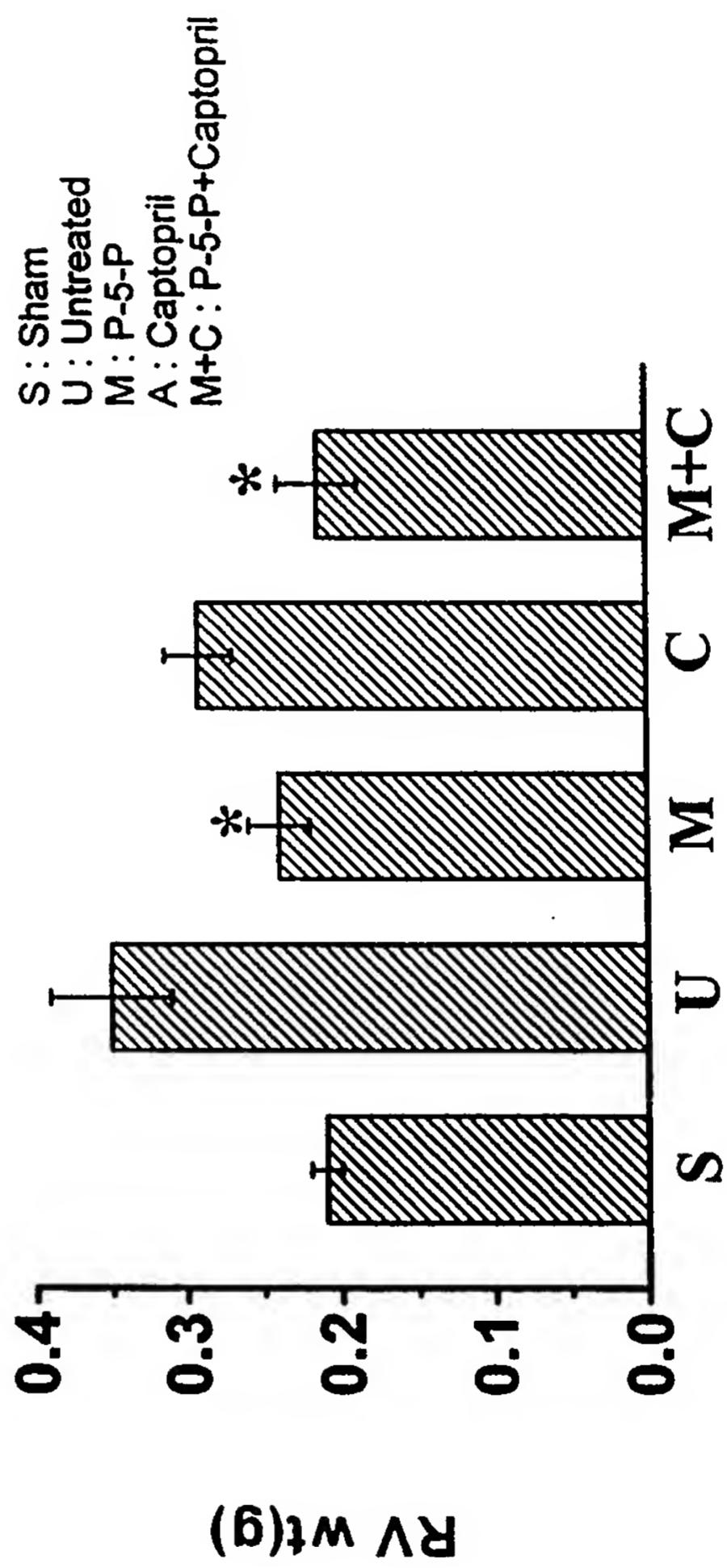


\*P<0.05 significantly different from untreated group

**Figure 25**

**Effect of P-5-P and captopril alone or in combination on right ventricular weight**

Model: rat model of coronary ligation  
Species: Sprague Dawley rats  
Dose of the drug: P-5-P (10 mg/kg), captopril (100 mg/kg)  
Route of administration: oral/once daily for 21 days  
Treatment time: 1 hour after ligation  
No. of animals in each group: 5-6



\*P<0.05 significantly different from untreated group

**Figure 26**

### **Effect of P-5-P and propranolol alone or in combination on right ventricular weight**

Model: rat model of coronary ligation

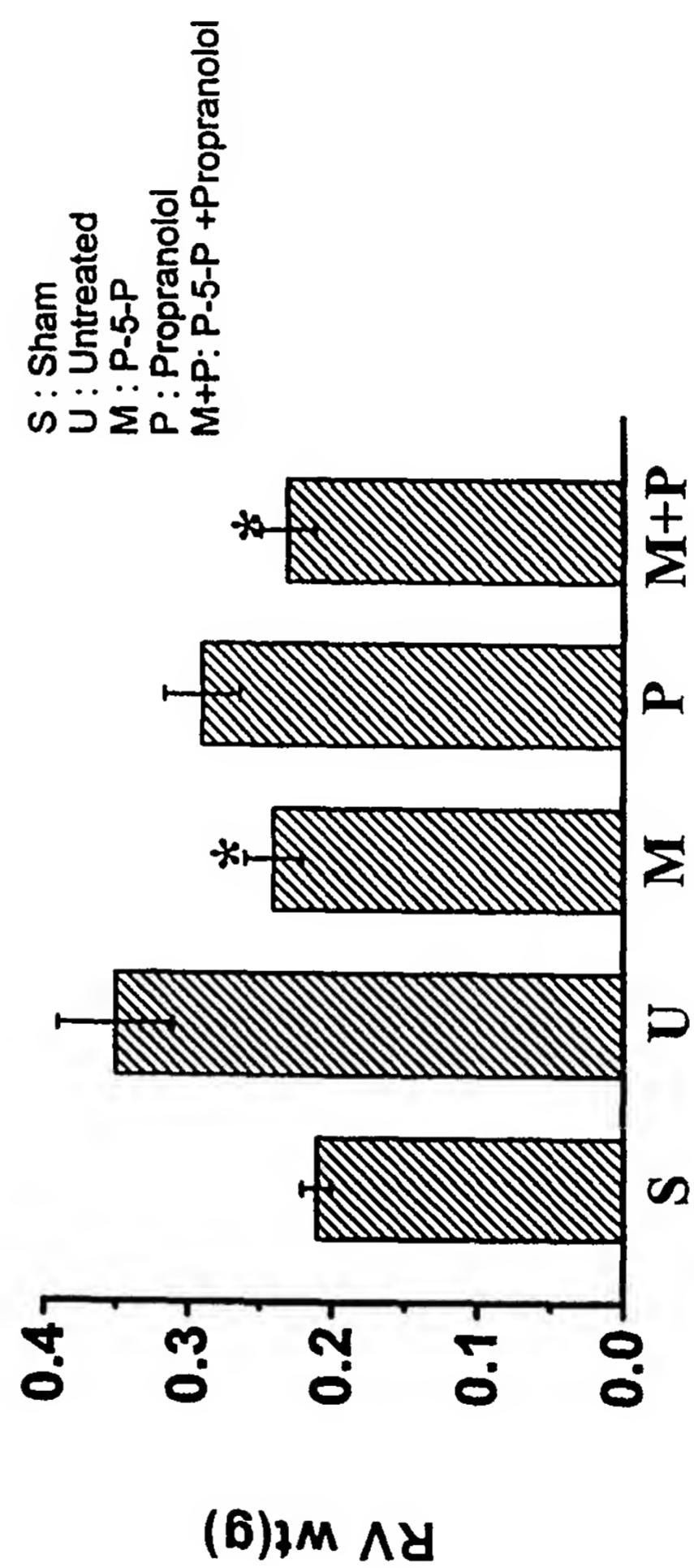
Species: Sprague Dawley rats

Dose of the drug: P-5-P (10 mg/kg), propranolol (50 mg/kg)

Route of administration: oral/once daily for 21 days

Treatment time: 1 hour after ligation

No. of animals in each group: 5-6



\*P<0.05 significantly different from untreated group

**Figure 27**

### Effect of P-5-P and verapamil alone or in combination on right ventricular weight

Model: rat model of coronary ligation

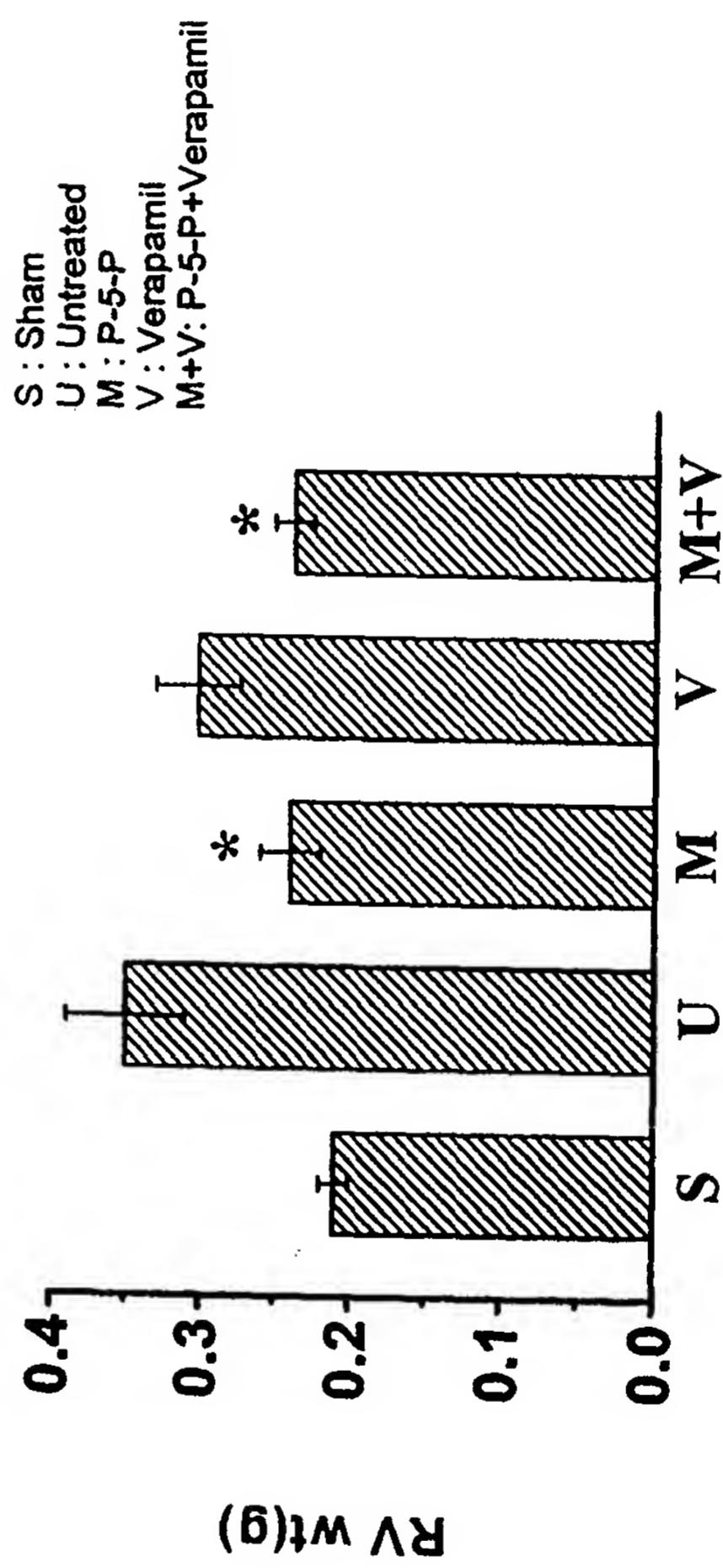
Species: Sprague Dawley rats

Dose of the drug: P-5-P (10 mg/kg), Verapamil (25 mg/kg)

Route of administration: oral/once daily for 21 days

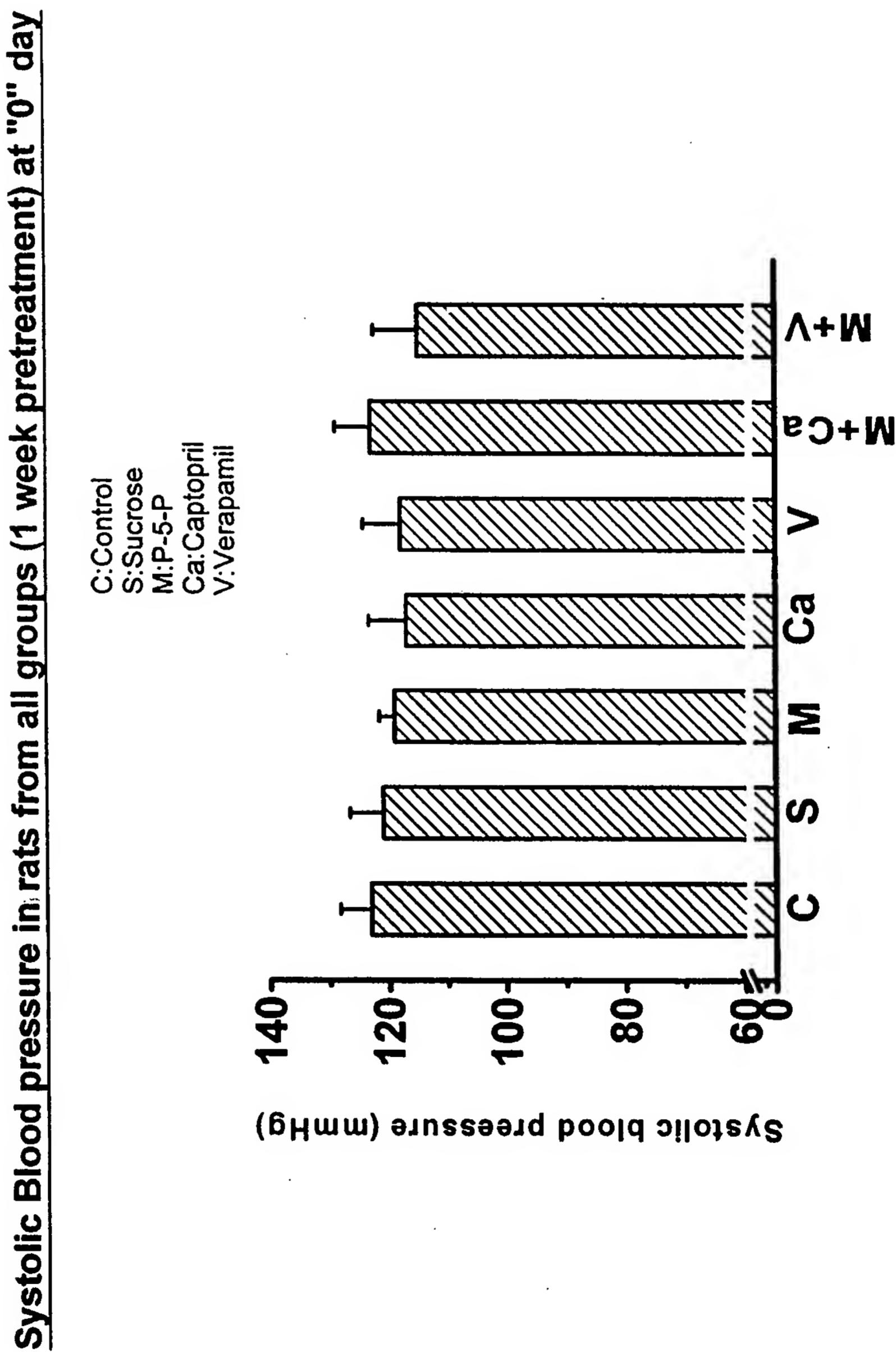
Treatment start time: 1 hour after ligation

No. of animals in each group: 5-6

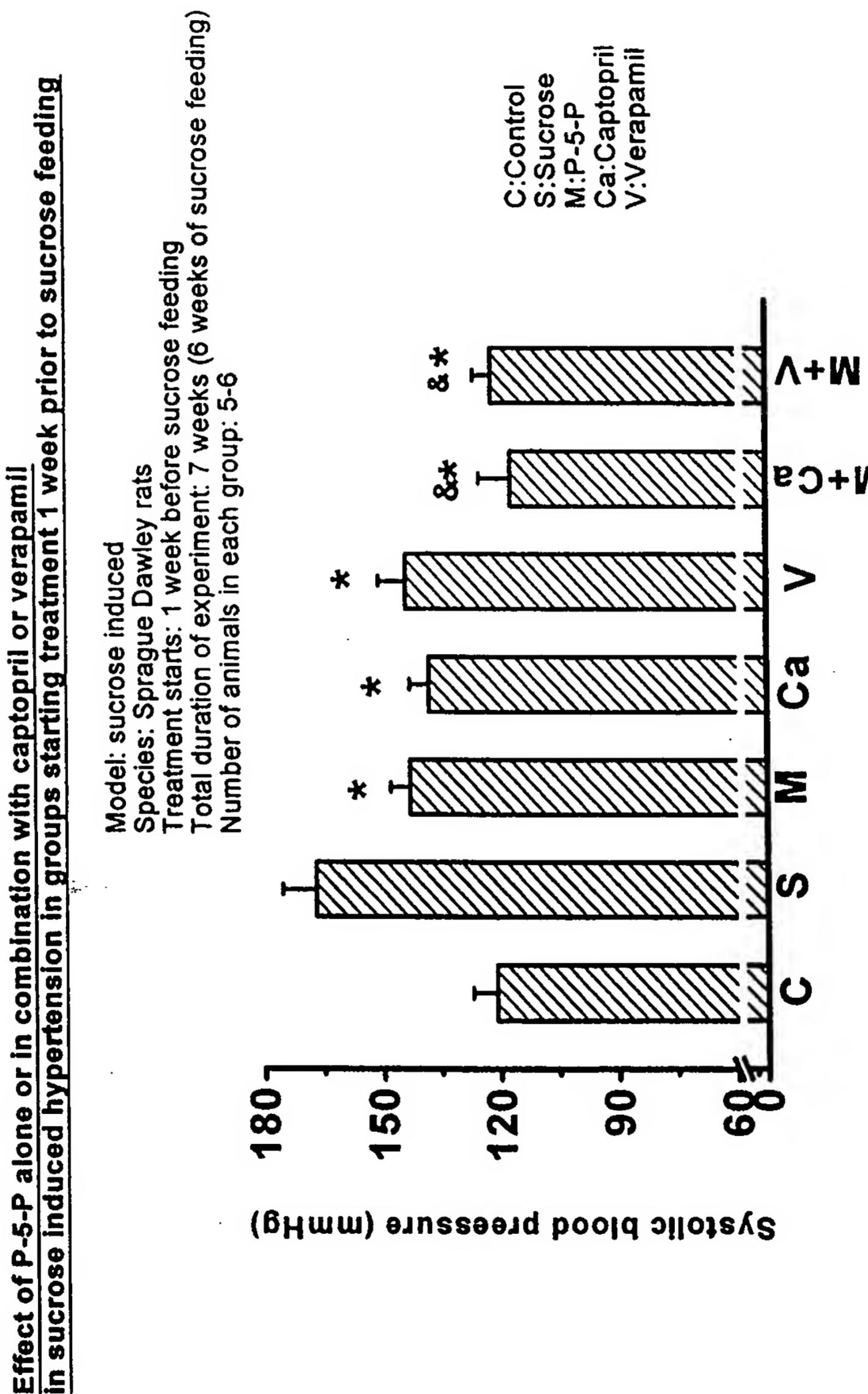


**Figure 28**

\*P<0.05 significantly different from untreated group

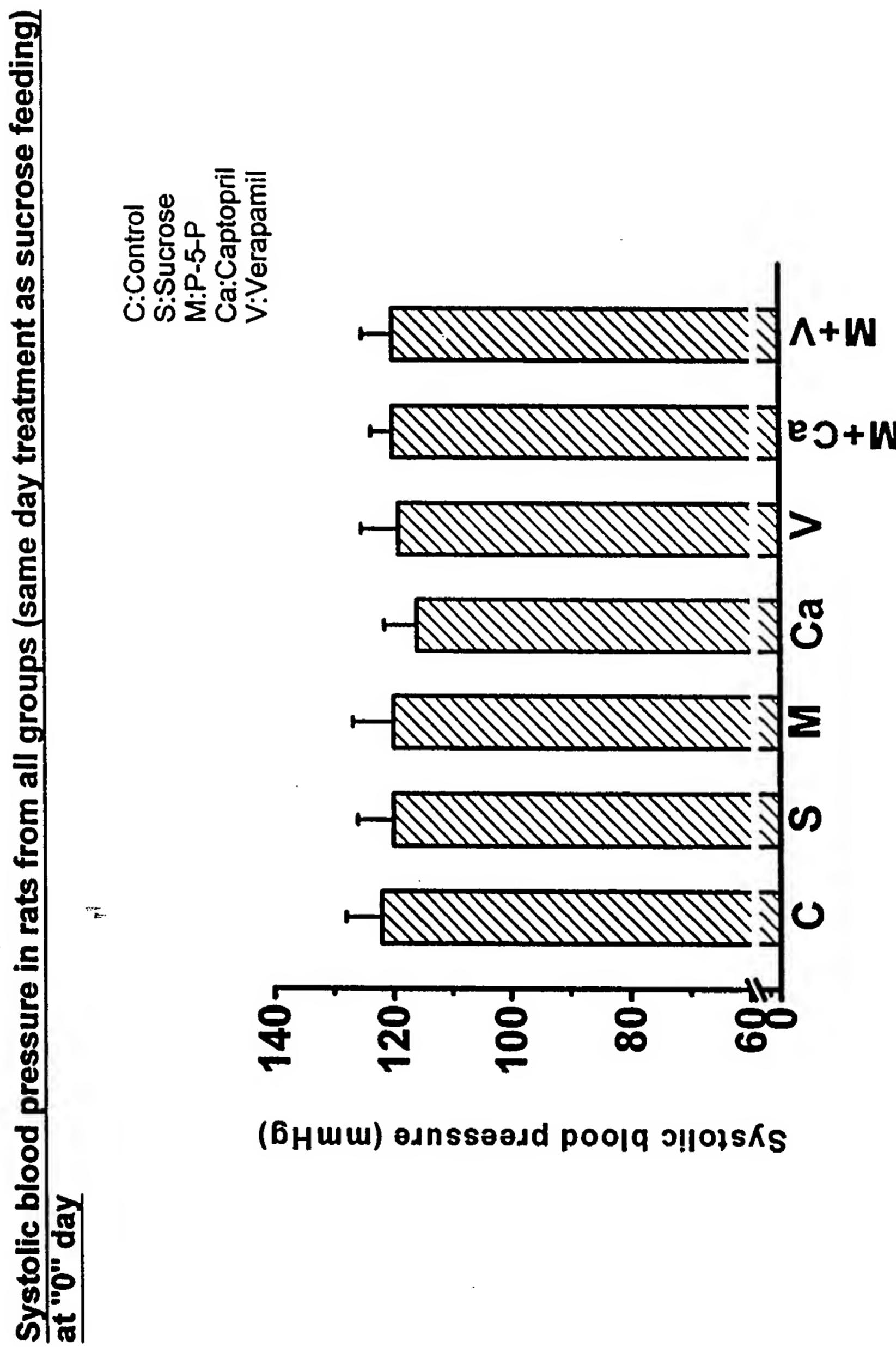


**Fig. 29A**



\*P<0.05 compared with sucrose group  
#P<0.05 Compare with M and Ca group  
&P<0.05 Compared with M and V group

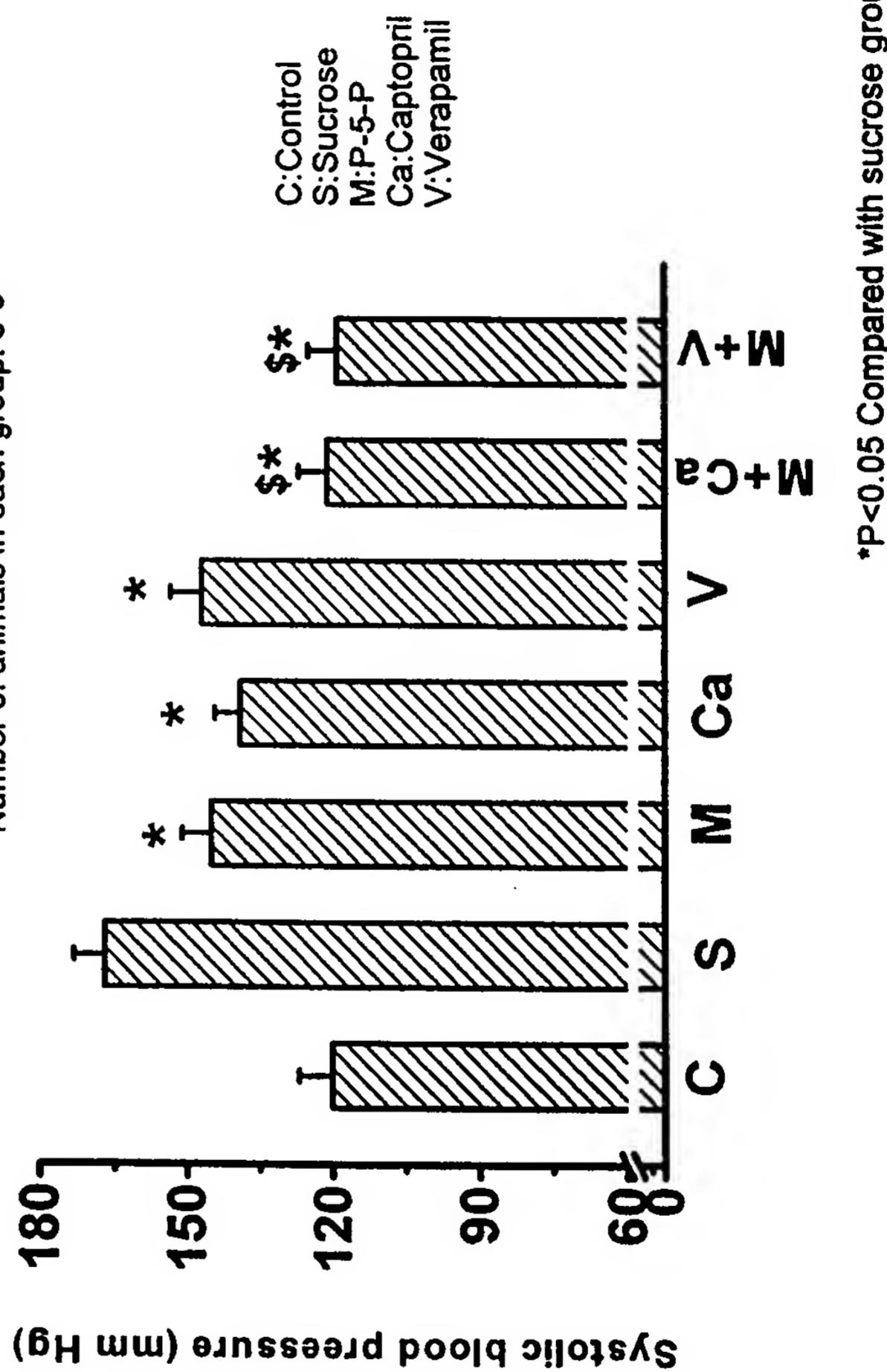
**Fig. 29B**



**Fig. 30A**

**Effect of P-5-P alone or in combination with captopril or verapamil in sucrose induced hypertension in groups starting treatment same day as sucrose feeding**

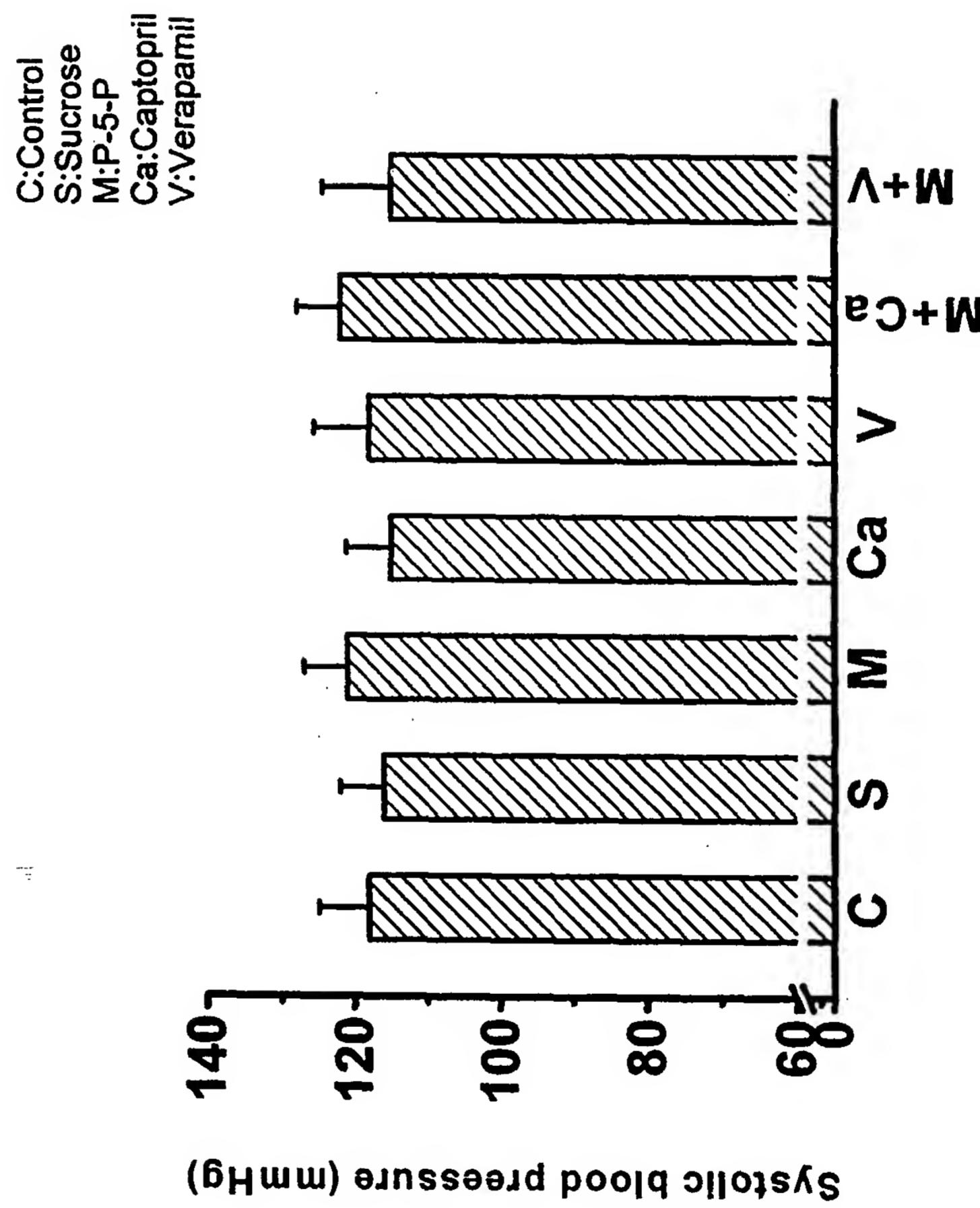
Model: sucrose induced  
Species: Sprague Dawley rats  
Treatment starts: same day as sucrose feeding  
Total duration of experiment: 6 weeks  
Number of animals in each group: 5-6



\*P<0.05 Compared with sucrose group  
##P<0.05 Compare with M and Ca group  
\$P<0.05 Compared with M and V group

**Fig. 30B**

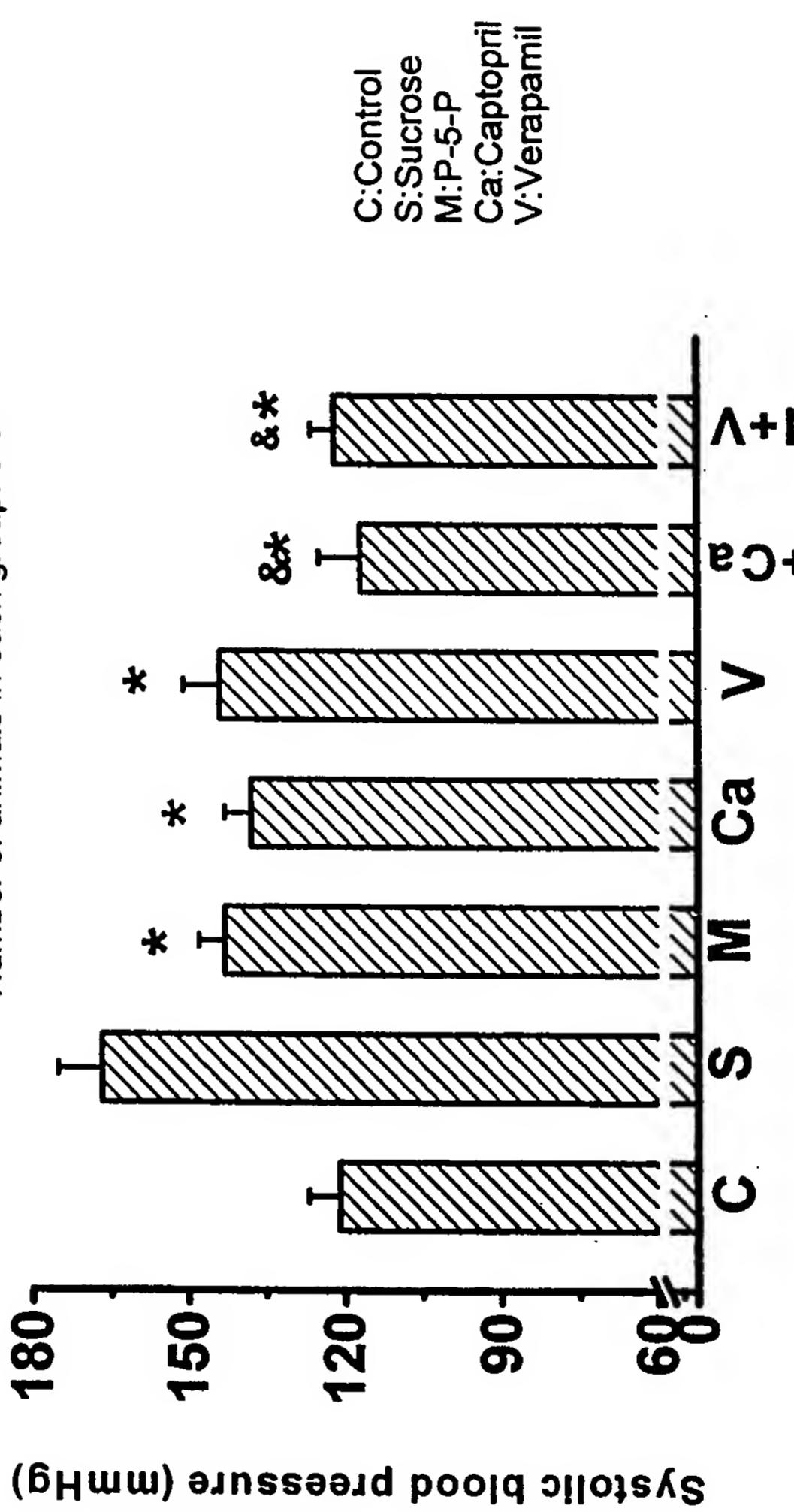
**Systolic blood pressure in rats from all groups (2 weeks after feeding) at "0" day.**



**Fig. 31A**

**Effect of P-5-P alone or in combination with captopril or verapamil in sucrose induced hypertension in groups starting treatment 1 week prior to sucrose feeding**

Model: sucrose induced  
Species: Sprague Dawley rats  
Treatment starts: 1 week before sucrose feeding  
Total duration of experiment: 7 weeks (6 weeks of sucrose feeding)  
Number of animals in each group: 5-6



\*P<0.05 compared with sucrose group  
#P<0.05 Compare with M and Ca group  
&P<0.05 Compared with M and V group

**Fig. 31B**